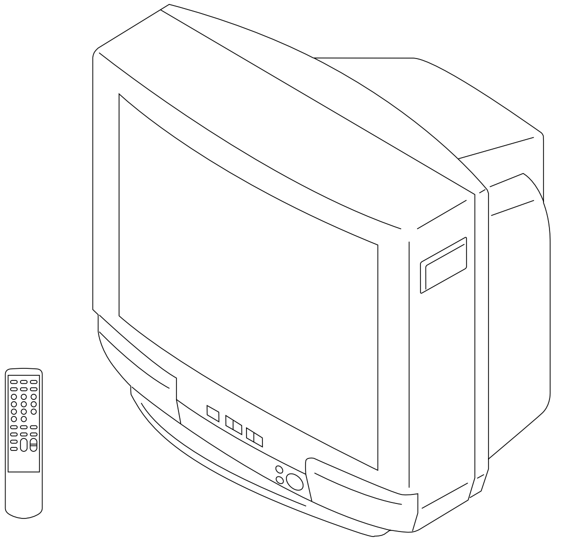
SERVICE MANUAL

BG-1S CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-T25SZ8	RM-870	Australia	SCC-J99F-A				



MICROFILM

TRINITRON ® COLOR TV

SONY®

SPECIFICATIONS

			Note
Power requirements	110-240 V AC, 50/60 Hz		
Power consumption (W)	Indicated on the rear of the TV		
Television system	B/G, I, D/K, M		
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58		
Channel coverage			
B/G	VHF : E2 to E12 / UHF : E21 to E69 / CATV : S01 to S03, S1 to S41		
I	UHF : B21 to B68 / CATV : S01 to S03, S1 to S41		
D/K	VHF : C1 to C12, R1 to R12 / UHF : C13 to C57, R21 to R60 / CATV : S01 to S03, S1 to S41, Z1 to Z39		KV-G25M11
	VHF : R1 to R12 / UHF : R21 to R60 / CATV : S01 to S03, S1 to S41		except KV-G25M11
M	VHF : A2 to A13 / UHF : A14 to A79/ CATV : A-8 to A-2, A to W+4, W+6 to W+8		KV-G25M11
	VHF : A2 to A13 / UHF : A14 to A79 / CATV : A-8 to A-1, A to D, F to W+21, W+23 to W+84		except KV-G25M11
Audio output (speaker)	5W		
Inputs	Antenna: 75 ohms		
	VIDEO IN jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms, high impedance		
Outputs	Earphone jack: minijack		
	MONITOR OUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms		
Picture tube	25 in.		
Tube size (cm)	64		Measured diagonally
Screen size (cm)	60		Measured diagonally
Dimensions (w/h/d, mm)	613 x 542 x 472		
Mass (kg)	32		

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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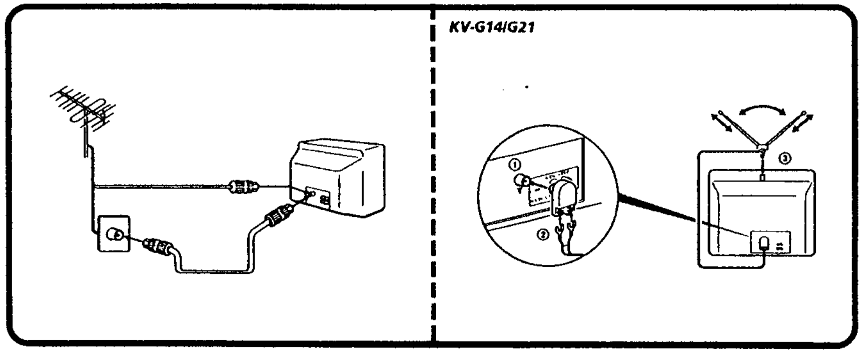
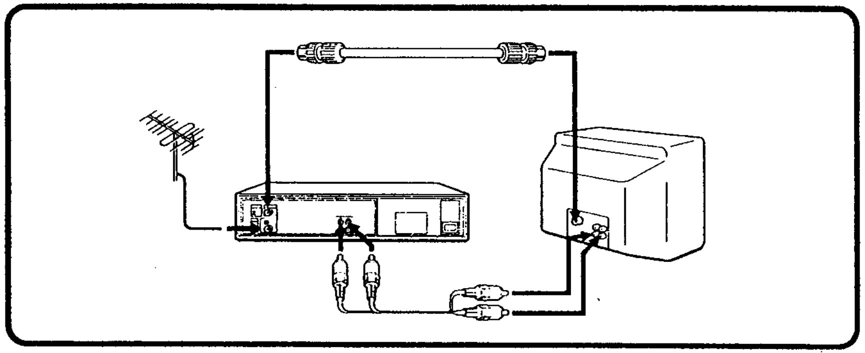
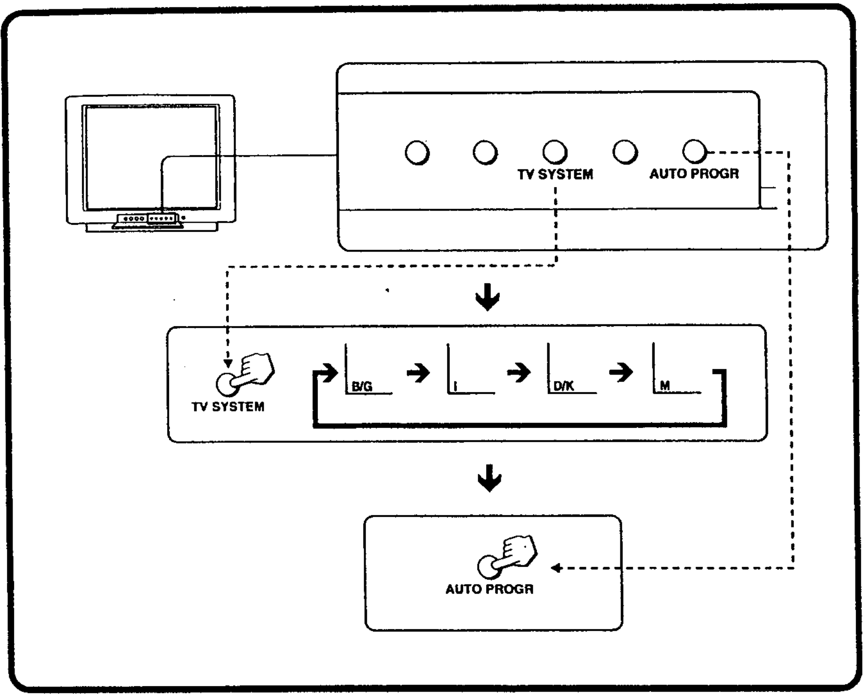
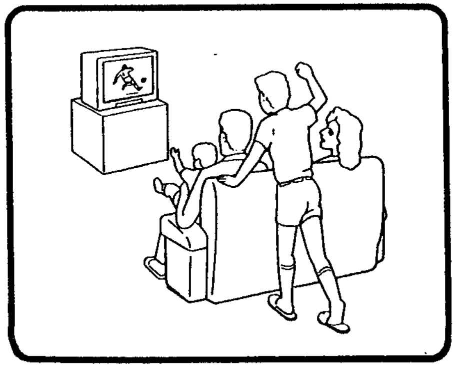
SECTION 1
GENERAL

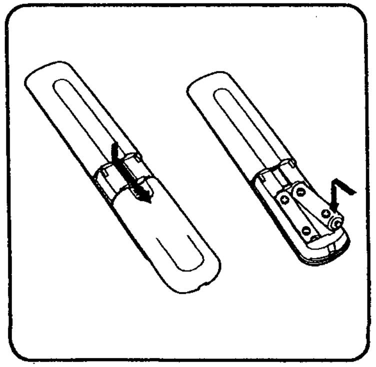
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.







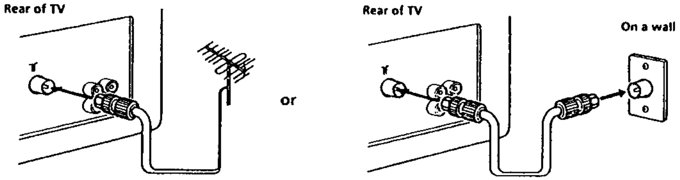




Connections

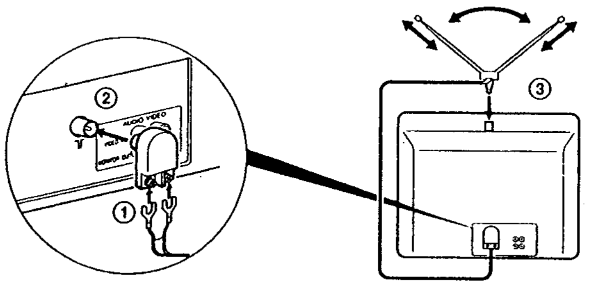
Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable.
Plug the connector into the ℣ (antenna) socket at the rear of the TV.



Connecting an indoor antenna

■ *KV-G14/G21*



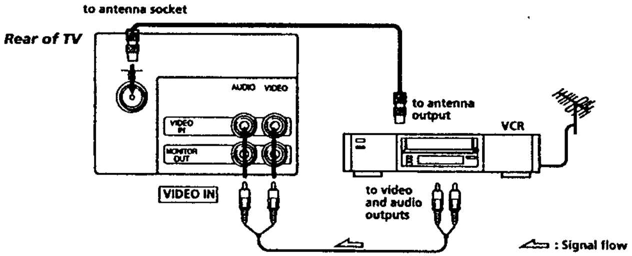
Note

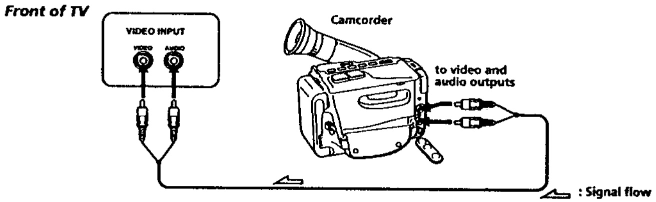
- You are advised to use an outdoor antenna for better reception.

Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, or video game.

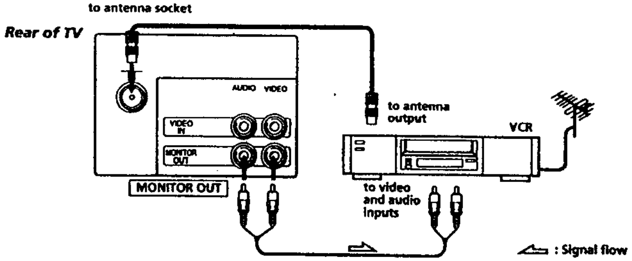
Connecting video equipment using VIDEO IN jacks





When using the video input jacks
Do not connect video equipment to the VIDEO input jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

Connecting audio/video equipment using MONITOR OUT jacks



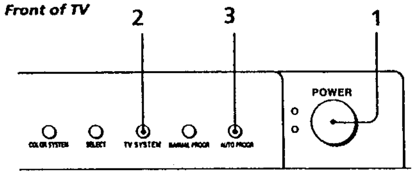
When recording through the MONITOR OUT jacks
If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

Presetting channels

Presetting channels automatically

You can preset up to 80 TV channels in numerical sequence from program position 1.

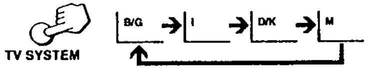
Front of TV



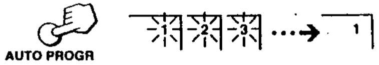
1 **Press POWER.**

When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

2 **Press TV SYSTEM until your local TV system appears.**



3 **Press AUTO PROGR.**



To start presetting channels automatically from the specified program position

1 Press MANUAL PROGR.
2 Press TV SYSTEM to select your local TV system.
3 Press PROGR +/– to select the program position.
4 Press AUTO PROGR.

Presetting channels manually

To change the channel for a particular program position or to receive a channel with a weak signal, preset the channel manually.

1 **Press MANUAL PROGR.**

2 **Press PROGR +/– until the required program position appears on the screen.**

3 **Press TV SYSTEM until your local TV system appears.**

4 **Press VOLUME +/– on the TV until the required channel picture appears on the screen.**

5 **Press MANUAL PROGR.**

If the TV system is not properly selected
The color of the picture may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

1 Press PROGR +/– to select the program position.
2 Press TV SYSTEM until the picture and sound become normal.

Notes
- If you do not know your local TV system, consult your nearest authorized service center or dealer.
- The setting of the TV SYSTEM is memorized for each program position.

Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/–.

1 **Press PROGR +/– until the unused or unwanted program position appears on the screen.**

2 **Press MANUAL PROGR.**

3 **Press PIC MODE on the remote commander.**

4 **Press MANUAL PROGR.**

To cancel the skip setting
Preset the channel manually or automatically again.

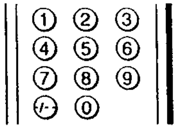
Watching the TV

1 **Press POWER to turn the TV on.**

When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

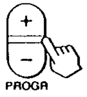
2 **Select the TV channel you want to watch.**

To select a channel directly
Press a number button.

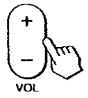


To select a two-digit channel, press "-/--" before the number buttons.
For example: to select channel 25, press "-/--," and then "2" and "5."

To scan through channels
Press PROGR +/– until the channel you want appears.

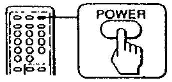


3 **Press VOL +/– to adjust the volume.**



Switching off the TV

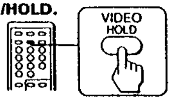
To switch off the TV temporarily, press POWER on the remote commander.

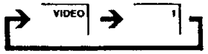


To switch off the TV completely, press POWER on the TV.
If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while.

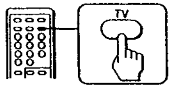
Watching the video input

Press VIDEO/HOLD.



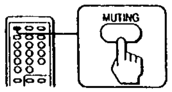


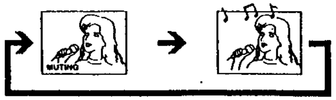
To watch TV, press TV.



Muting the sound

Press MUTING.

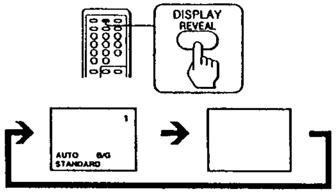




MC-Service

Displaying on-screen information

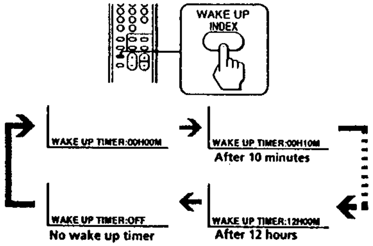
Press DISPLAY/REVEAL.
The program position, local system, and TV settings are displayed on the screen.



Setting the Wake Up Timer

You can set the TV to turn on automatically after the period of time you want.

1 Press WAKE UP/INDEX repeatedly to set the timer.
The on-screen display appears and the WAKE UP indicator lights up.



2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video mode.

3 Press POWER on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

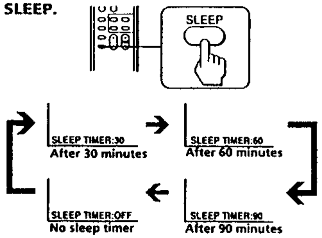
To cancel the Wake Up Timer, press WAKE UP/INDEX repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

Notes
- The Wake Up Timer starts immediately after the on-screen display disappears.
- The last TV program position or video mode just before the TV turns into Standby mode will appear when the TV turns on using the Wake Up Timer.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up Timer, the TV automatically turns into standby mode. When you want to continue watching the TV, press any button or control on the TV or remote commander.

Setting the Sleep Timer

You can set the TV to turn off automatically after the period of time you want.

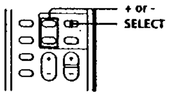
Press SLEEP.



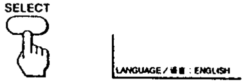
To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP TIMER: OFF" appears, or turn the TV off.

Changing the on-screen display language

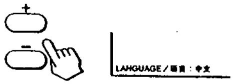
If you prefer Chinese to English, you can change the on-screen display language. You can use buttons on both the remote commander and the TV.



1 Press SELECT until the screen appears as follows:

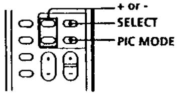


2 Press + or – to select " 中文 ".



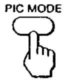
Note
- You can also use VOLUME +/– on the TV to select the on-screen display language.

Adjusting the picture

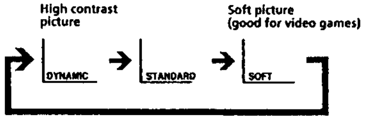


Selecting the picture mode

Press PIC MODE until the mode you want appears.



Each time you press PIC MODE, the screen changes as follow:

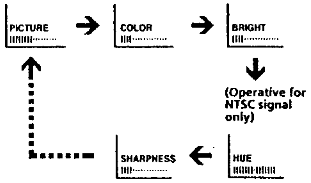


Note
- If you change the picture mode after the following adjustments, the adjustment changes in accordance with the picture mode.

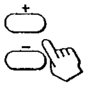
Adjusting the picture setting

1 Press SELECT until the item you want to adjust appears.

Each time you press SELECT, the screen changes as follows:



2 Press +/– to adjust the item.



3 To adjust other items, repeat steps 1 and 2.

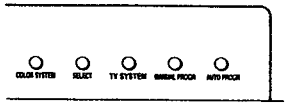
Note
- You can also use VOLUME +/– on the TV to adjust the picture setting.

If the color of the picture is abnormal
When receiving programs through the ℸ terminal:
Press TV SYSTEM or COLOR SYSTEM or adjust the color setting until the color becomes normal.

Note
- Normally set COLOR SYSTEM to AUTO.

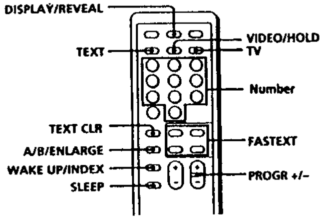
If the sound is distorted or noisy
When receiving programs through the ℸ terminal:
Press TV SYSTEM until the sound becomes clear.

Front of TV



Viewing Teletext

■ ***KV-G25M11 only***



Displaying Teletext

1 Select a TV channel which carries the Teletext broadcast you want to watch.

2 Press TEXT to display the Teletext.
A Teletext page is displayed (normally the index page). If there is no Teletext broadcast, 100 is displayed at the top left corner of the screen.

To cancel the Teletext display, press TV.

Superimposing a Teletext page on the TV picture

Press TEXT.
Each time you press TEXT, the screen changes as follows:

→ Teletext → Teletext and TV → TV

Checking the contents of a Teletext service (INDEX)

Press WAKE UP/INDEX to display an overview of the Teletext contents and page numbers.

Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT page is broadcasted, a color-coded menu appears at the bottom of the screen. The colors of the menu correspond to the RED, GREEN, YELLOW, and CYAN buttons on the remote commander.

Press the color button which corresponds to the color-coded menu.
The page is displayed after a few seconds.

Selecting a Teletext page

To input the three-digit page number of the Teletext page, press the number buttons.
If you make a mistake, key in the correct page number again.

To access the next or previous page, press PROGR +/–.

Holding a Teletext page (subpage)

Press VIDEO/HOLD.
The HOLD symbol "⊕" is displayed at the top left corner of the screen.

To resume normal Teletext operation, press VIDEO/HOLD again or TEXT.

Revealing concealed information

Press DISPLAY/REVEAL.
To conceal the information, press DISPLAY/REVEAL again.

Enlarging the Teletext display

Press A/B/ENLARGE.
Each time you press A/B/ENLARGE, the Teletext display changes as follows:

→ Enlarge upper half → Enlarge lower half → Normal size

Waiting for a Teletext page while watching a TV program (TEXT CLEAR)

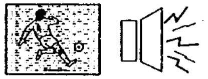
1 Key in the page number of the Teletext that you want to refer, then press TEXT CLR.

2 When the page number is displayed on the screen, press TEXT to switch the Teletext on.

Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.
If the problem persists, contact your nearest authorized service center or dealer.

Snowy picture
Noisy sound



- → Check the antenna.
- → Check the antenna connection on the TV and on the wall.
- → Check the TV SYSTEM setting.

Dotted lines or stripes

- → This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.) Adjust the antenna for minimum interference.

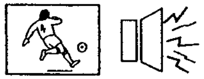
Double images or "ghosts"

- → This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

Note on the remote commander

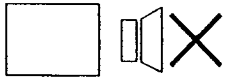
- The supplied remote commander is used on several models of the TV. If you do not find insructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

Good picture
Noisy sound



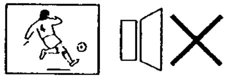
- → Check the TV SYSTEM setting.

No picture
No sound



- → Press POWER.
- → Check the antenna connection.
- → Check the VCR connections.
- → Check the power cord connection.
- → Check the standby mode.

Good picture
No sound



- → Press VOLUME +
- → Press MUTING.

No color

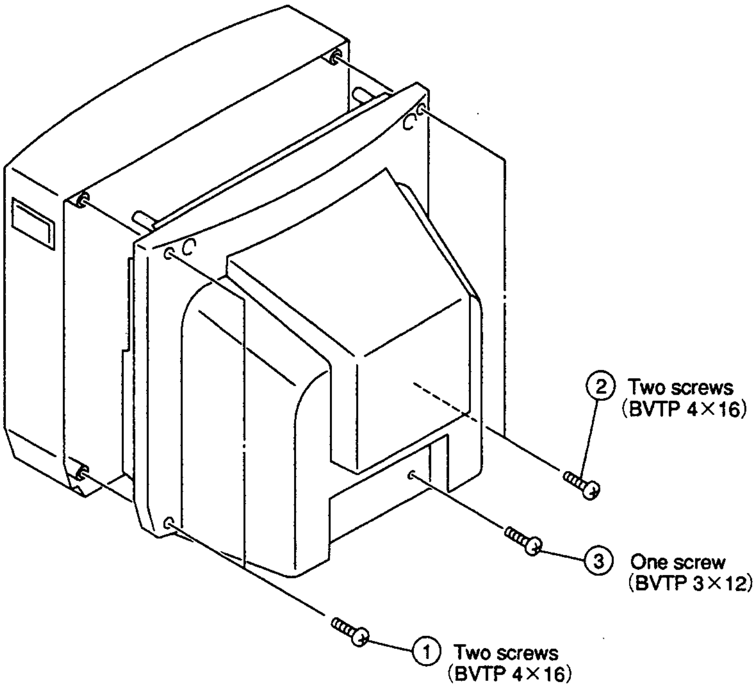
- → Adjust the COLOR level in the on-screen display.
- → Check the COLOR SYSTEM setting.

TV cabinet creaks

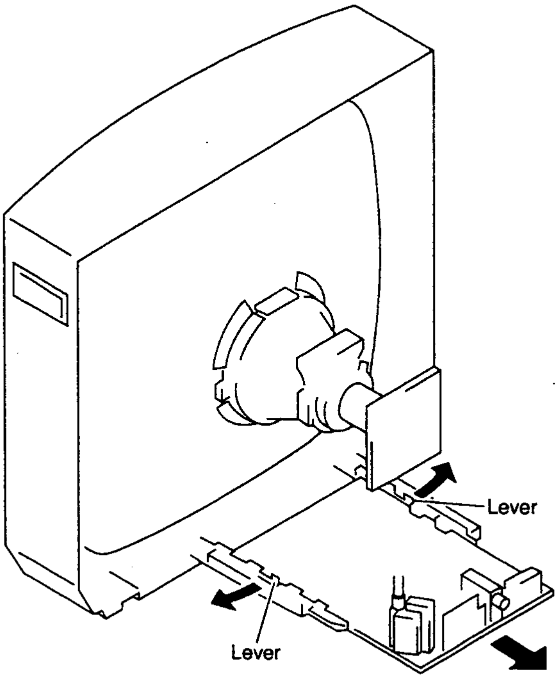
- → Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

SECTION 2
DISASSEMBLY

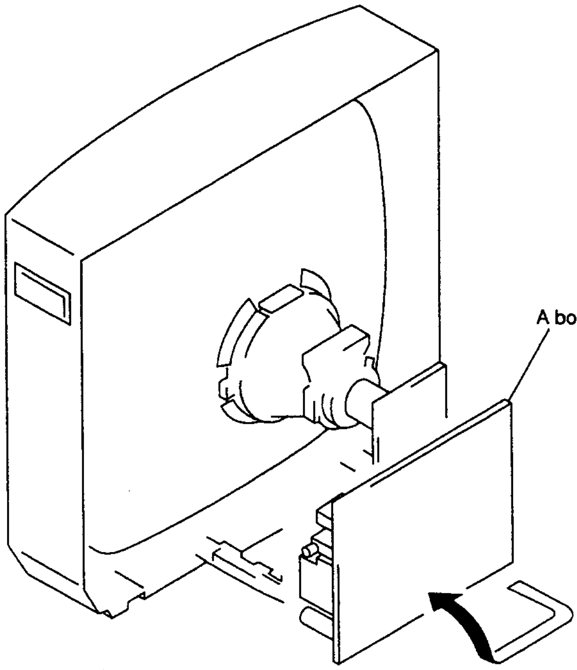
-1. REAR COVER REMOVAL



-2. A BOARD REMOVAL



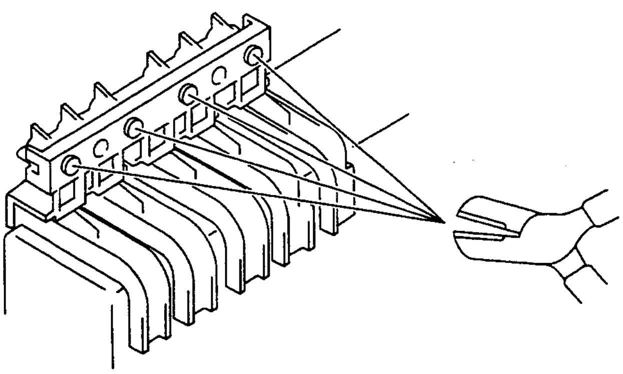
2-3. SERVICE POSITION

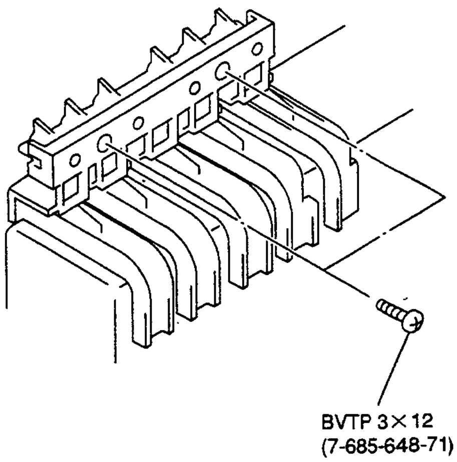


2-4. REPLACEMENT OF PARTS

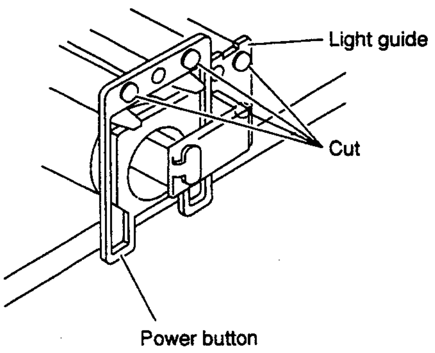
For replacement of the Multi Button, Power Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

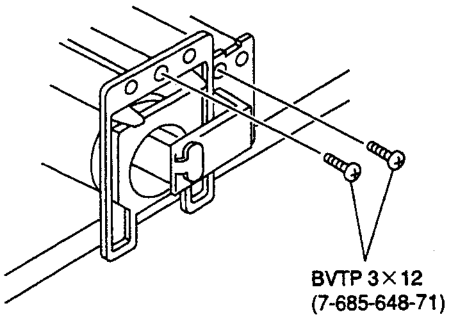
2-4-1. REPLACEMENT OF MULTI BUTTON



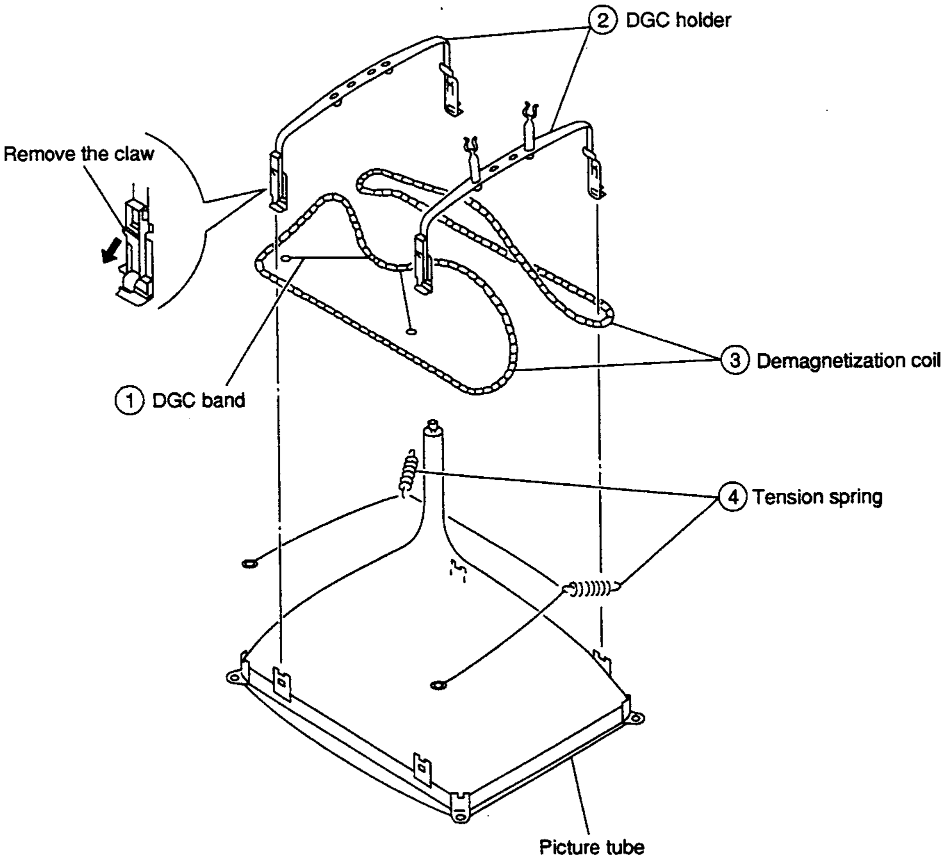


4-2. REPLACEMENT OF LIGHT GUIDE, POWER BUTTON

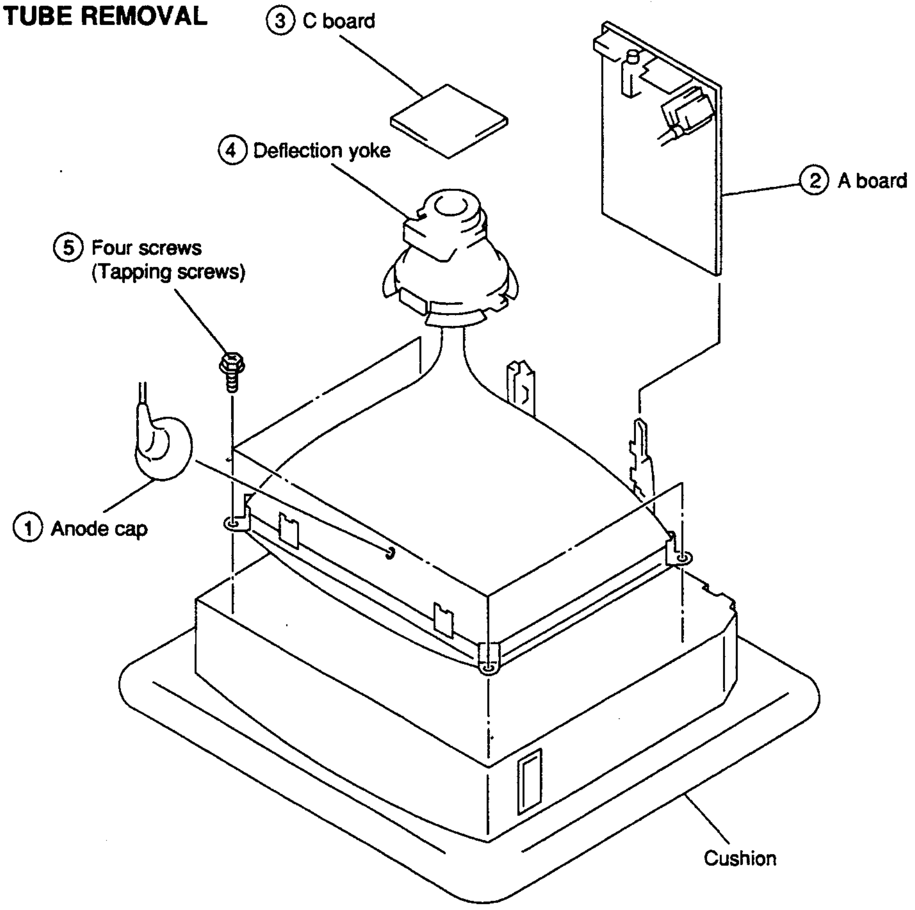




2-5. DEMAGNETIZATION COIL REMOVAL



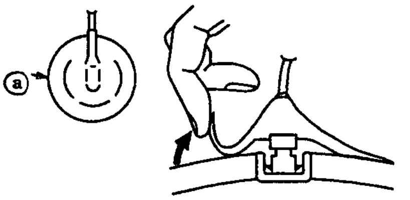
2-6. PICTURE TUBE REMOVAL



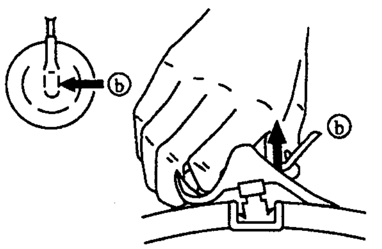
- **REMOVAL OF ANODE-CAP**

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

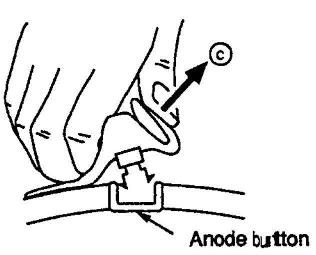
- **REMOVING PROCEDURES**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



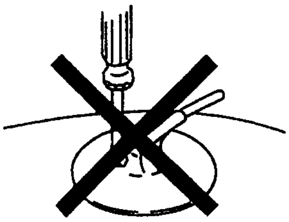
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

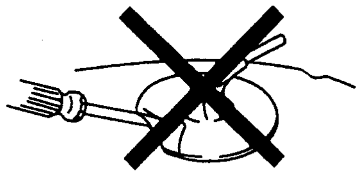
- **HOW TO HANDLE AN ANODE-CAP**

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted :

PICTURE control .... normal
BRIGHTNESS control .... normal

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast } normal
   Brightness } normal
2. Set the pattern generator raster signal to green.
3. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 3-1 through 3-3.)
4. Move the deflection yoke forward and adjust so that entire screen is green. (See Figure 3-1.)
5. Switch the raster signal to blue, then to red and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
   If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 3-4.)

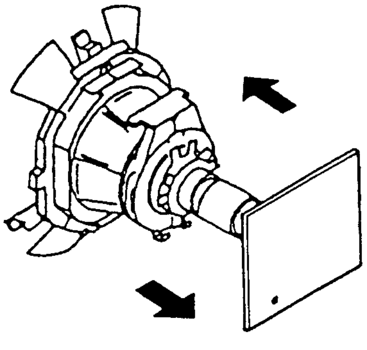


Fig. 3-1

Purity control

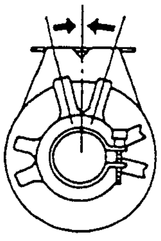


Fig. 3-2

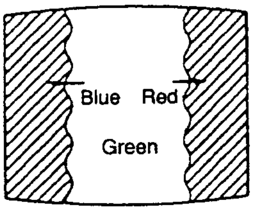


Fig. 3-3

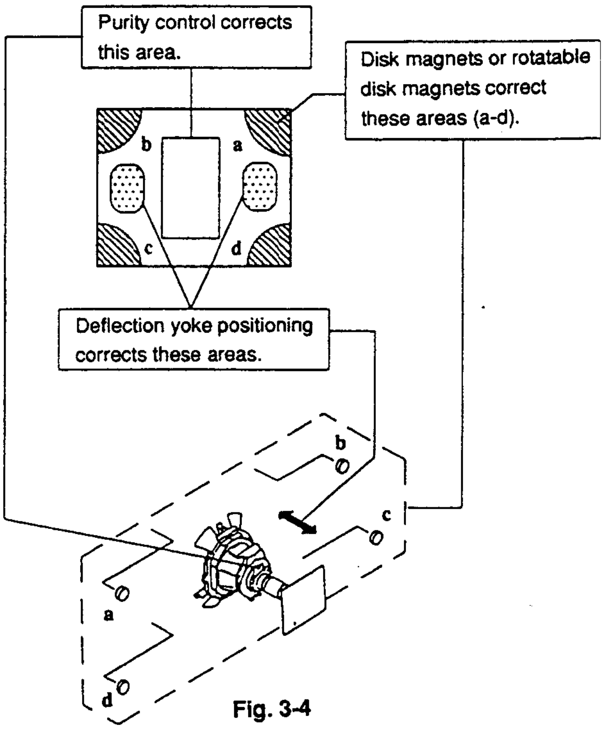

Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these areas (a-d).
b
a
c
d
Deflection yoke positioning corrects these areas.
b
c
a
d

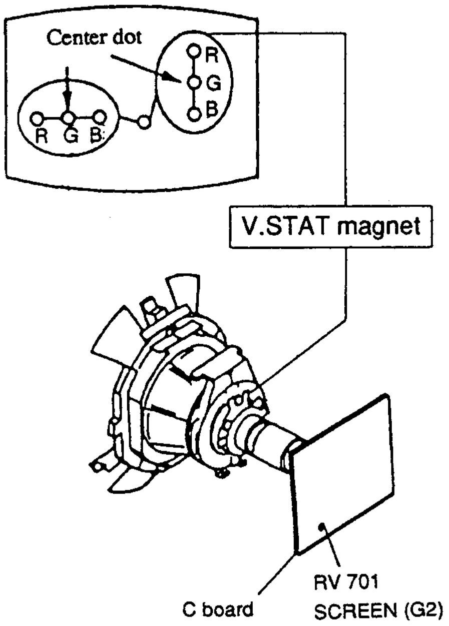
Fig. 3-4

3-2. CONVERGENCE

Preparations :

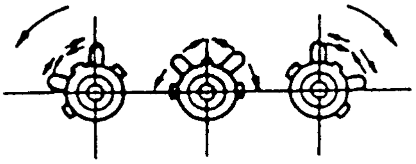
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and Vertical Static Convergence

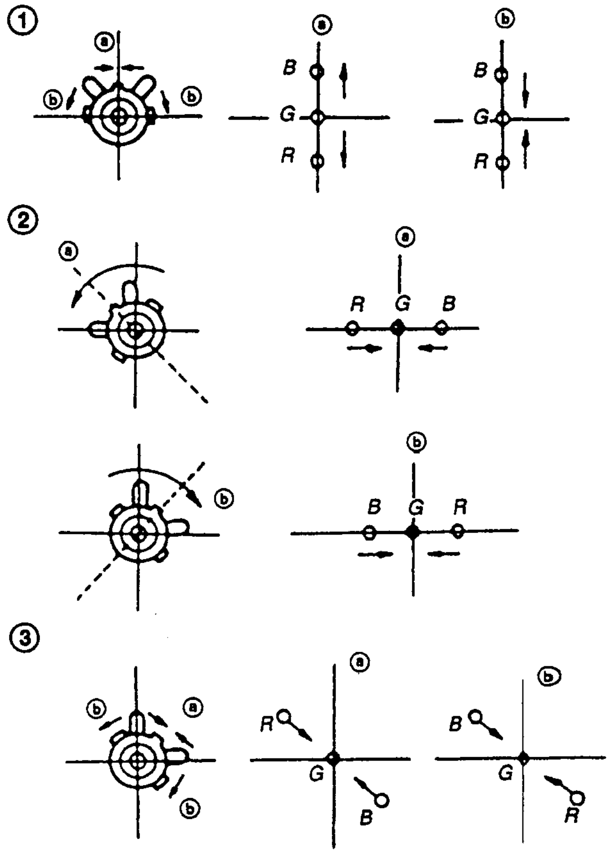


1. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.

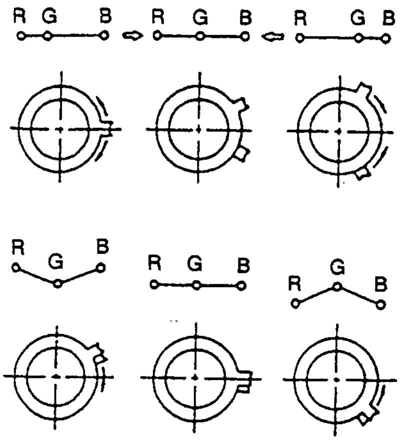
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

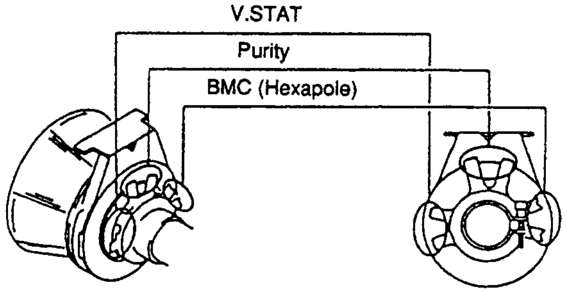


3. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.



Operation of BMC (Hexapole) Magnet.





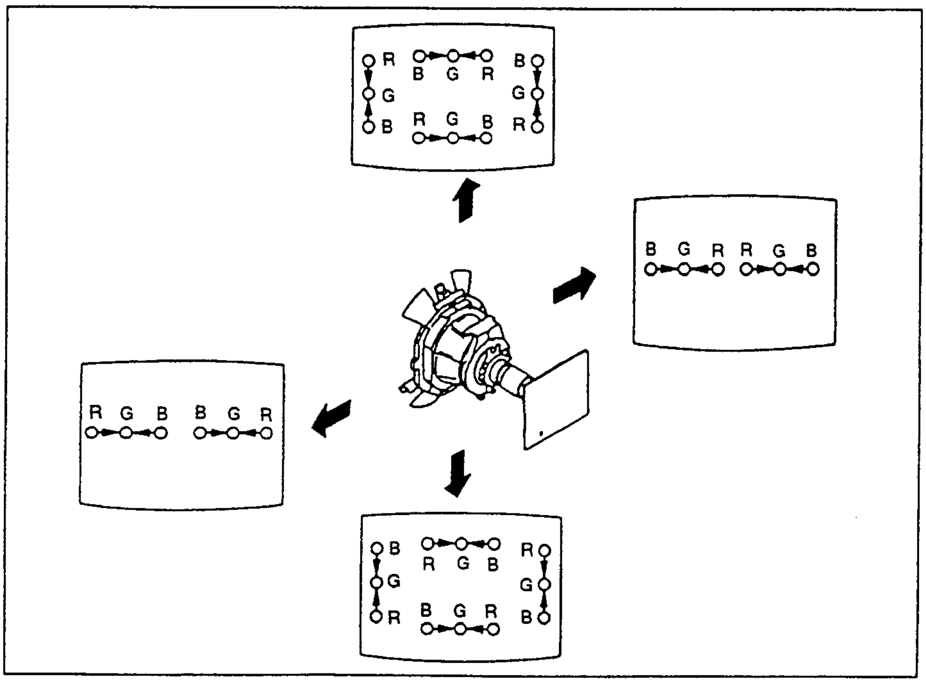
- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking. Use the V.STAT magnet to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

[illegible]) Dynamic Convergence Adjustment

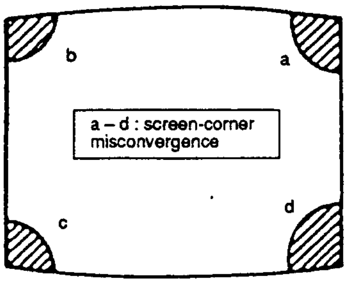
Preparations :

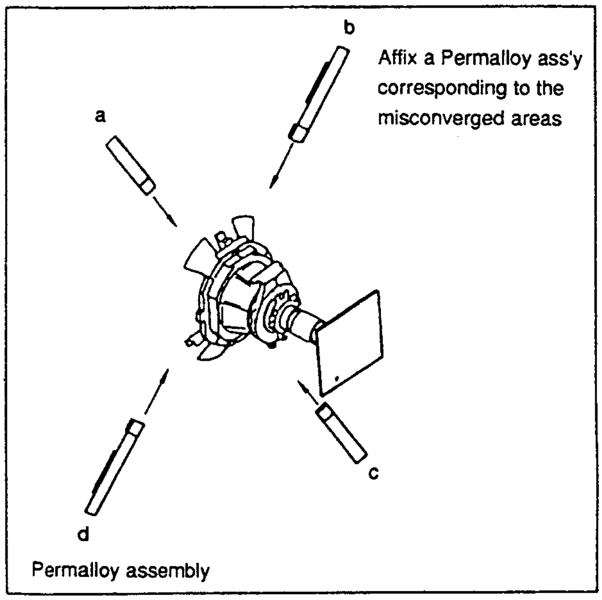
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



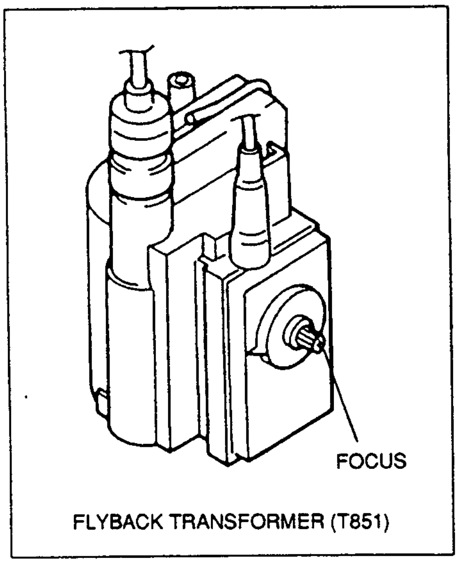
(3) Screen-corner Convergence




b
Affix a Permalloy ass'y corresponding to the misconverged areas
a
c
d
Permalloy assembly

3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for a best focus.



FLYBACK TRANSFORMER (T851)

a. AN ITEM OF ADJUSTMENT

Item number	Adjustment item	Initial DATA	Note
09	RDR	25	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

b. METHOD OF CANCELLATION FROM SERVICE MODE

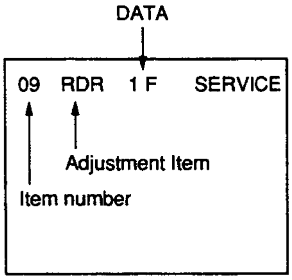
Set the standby condition (Press POWER button on the commander) in the next place, press POWER button again, hereupon it becomes TV mode.

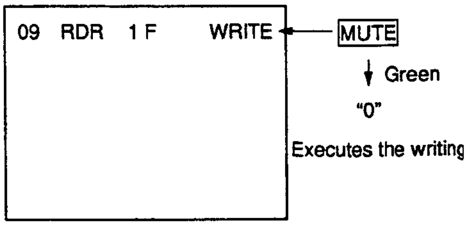
c. METHOD OF WRITE FOR MEMORY

1) Set to Service Mode.
2) Press 1 (UP) and 4 (DOWN), select an item of adjustments.
3) Press MUTE button indicate WRITE (Green) on screen.
4) Press 0 button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again, confirm they were adjusted.

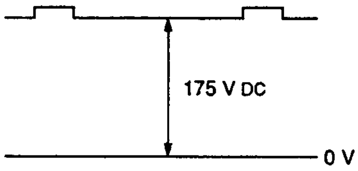




4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT (RV701)

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G, and B of the C board cathode to the oscilloscope.
4) Adjust G2 (RV701) volume to the value below.



2. WHITE BALANCE ADJUSTMENTS

1) Set the Service Mode.
2) Input an entire white signal.
3) Set the PICTURE to maximum.
4) Select RDR(09) with $\boxed{1}$ and $\boxed{4}$, and then set the level to 25 with $\boxed{3}$ and $\boxed{6}$.
5) Select GDR(0A) and BDR(0B) with $\boxed{1}$ and $\boxed{4}$ and adjust the level with $\boxed{3}$ and $\boxed{6}$ for the best white balance.
6) Write into the memory by pressing $\boxed{\text{MUTE}}$ → then $\boxed{0}$.

SECTION 4
CIRCUIT ADJUSTMENTS

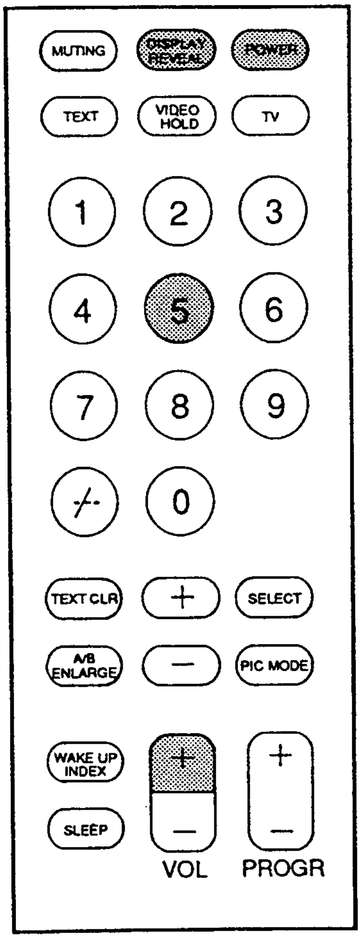
4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-870 that comes with this unit.

Entering service mode

With the unit on standby
↓
“DISPLAY”
↓
“5”
↓
“VOL (+)”
↓
“POWER”

The operation sequence puts the unit into service mode.

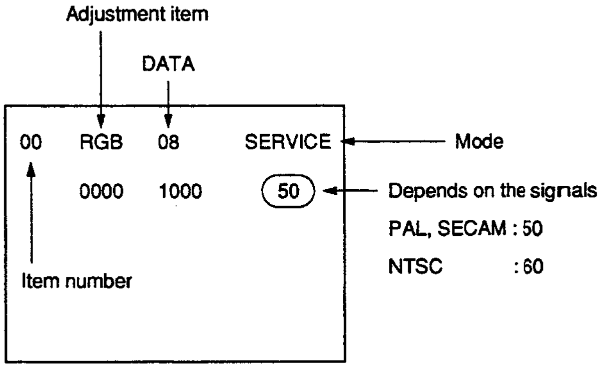


RM-870

“1”, “4”	Raise/lower the service item number
“3”, “6”	Raise/lower the data
“MUTING”	Writes
“0”	Executes the writing

“7”, “0”	The data all becomes the values in memory
“8”, “0”	User control all goes to the standard state
“5”, “0”	Service data initialization (Besure not to use usually.)
“2”, “0”	Write 50Hz adjustment data to 60Hz, or viceversa.

The screen display is :



“1”, “4” Select the adjustment item.
↓
“3”, “6” Raise/lower the data.
↓
“MUTING” Writes
↓
“0” Executes the writing.

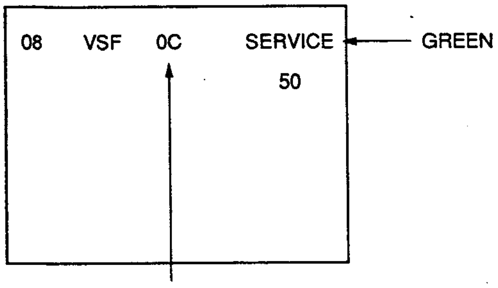
4-2. ADJUSTMENT METHOD

Item Number 08

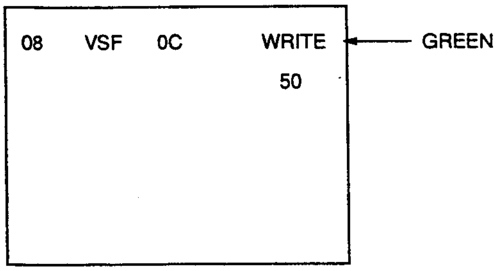
This explanation uses V-SHIFT as an example.

1. Select 08 V-SHIFT with the "1" and "4" buttons.
2. Raise/lower the data with the "3" and "6" buttons.
3. Select the optimum state. (The standard is for 0F PAL reception.)
4. Write with the MUTE button.
5. Execute the writing with the "0" button. (The WRITE display.)

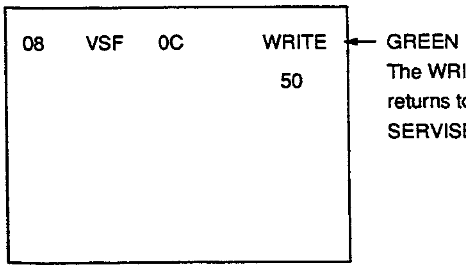
Use the same method for Items Number 00-40. Use "1" and "4" to select the adjustment item, use "3" and "6" to adjust, write with "MUTE", then execute the write with "0".



Adjusted with "3" and "6" buttons



Written with "MUTE"



The WRITE display returns to a green SERVISE.

Write executed with "0"

Adjustment Item Table

Item number	Adjustment Item	Data range	Initial data	Standard data	Note	Device
00	HSF	00~3F	24	50: 21 60: 26	H SHIFT	(TDA8366)
01	HSZ	00~3F	23	50: 27 60: 28	H SIZE	(TDA8366)
02	PAP	00~3F	21	50: 25 60: 25	PIN AMPLITUDE	(TDA8366)
03	CNP	00~3F	29	50: 2D 60: 2F	CORNER PIN	(TDA8366)
04	TLT	00~3F	20	50: 24 60: 20	TILT	(TDA8366)
05	VSL	00~3F	20	50: 21 60: 21	V SLOPE	(TDA8366)
06	VAP	00~3F	1D	50: 3E 60: 3F	V AMPLITUDE	(TDA8366)
07	SCR	00~3F	20	50: 29 60: 29	S CORRECTION	(TDA8366)
08	VSF	00~3F	20	50: 39 60: 3A	V SHIFT	(TDA8366)
09	RDR	00~3F	25	25 (Fix)	WHITE POINT R	(TDA8366)
0A	GDR	00~3F	20	20	WHITE POINT G	(TDA8366)
0B	BDR	00~3F	20	20	WHITE POINT B	(TDA8366)
0C	YDL	00~0F	00	00	Y DELAY ADJUSTMENT	(TDA8366)
0D	FO	00~02	00	TV: 00 VIDEO: 00	PHI-1TIME CONSTANT	(TDA8366)
0E	AGC	00~3F	06	TV: 06 VIDEO: 06	AGC TAKE OVER	(TDA8366)
0F	VSW	00~01	01	TV: 00 VIDEO: 01	VIDEO MUTE	(TDA8366)
10	FOR	00~03	00	0	FORCED FIELD FREQ.	(TDA8366)
11	DL	00~01	00	0	INTERLACE	(TDA8366)
12	POC	00~01	00	0	SYNCHRONISATION	(TDA8366)
13	NCI	00~01	00	50: 00 60: 00	V DIVIDER MODE	(TDA8366)
14	VID	00~01	00	50: 00 60: 00	VIDEO IDENT MODE	(TDA8366)
15	HCO	00~01	00	50: 00 60: 00	EHT TRACKING MODE	(TDA8366)
16	EVG	00~01	00	50: 00 60: 00	ENABLE V GUARD	(TDA8366)
17	SBL	00~01	00	50: 00 60: 00	SERVICE BLANKING	(TDA8366)
18	PRD	00~01	00	50: 00 60: 00	OVER-VOLTAGE INPUT	(TDA8366)
19	EXP	00~03	00	00	V DEFLECTION MODE	(TDA8366)
1A	SFM	00~01	01	01	H FREQ. DURING SWON	(TDA8366)
1B	PHL	00~01	00	00	COLOR X-TAL PLL	(TDA8366)
1C	COR	00~01	00	00	NOISE CORING PEAK	(TDA8366)
1D	PMX	00~3F	20	20	PICTURE MAX DATA	(TDA8366)
1E	SBR	00~7F	4B	53	SUB-BRIGHTNESS	(TDA8366)
1F	SHU	00~0F	07	07	SUB-HUE	(TDA8366)
20	SSH	00~03	01	TV: 01 VIDEO: 03	SUB-SHARPNESS	(TDA8366)
21	SCL	00~3F	3F	50: 3F 60: 3F	SUB-COLOR	(TDA8366)
22	TXP	00~0F	09	09	Text Picture cont.	(SAA5281)
23	MXP	00~0F	0B	0B	Text Mix mode Pic.	(SAA5281)
24	ODL	00~FF	10	10	Power ON Delay	(CXP85200)
25	OFR	00~0F	00	00	Remo. con. RGB OUT	(CXP85200)
26	OFM	00~0F	00	00	Main power RGB OUT	(CXP85200)
27	OSH	00~3F	0A	06	OSD Position H	(CXP85200)
28	MUT	00~01	01	00	No Sync. Mute	(CXP85200)
29	ABL	00~01	01	01	Bright ABL	(CXP85200)
2A	OP0	00~FF	40	2B	Option 0	(CXP85200)
2B	OP1	00~FF	07	07	Option 1	(CXP85200)

※ 50 ··· 50Hz data 60 ··· 60Hz data

※ Standard data listed on the Adjustment Item Table are reference values, therefore differ per model.

No 2A OP0 * Input data are different according to models.

–	AV Input		–	–	–	–	Saudi
0	0	1	0	0	0	0	0

No 2B OP1

–	–	–	TV System		NTSC	SECAM	Chin
0	0	0	0	0	1	1	1

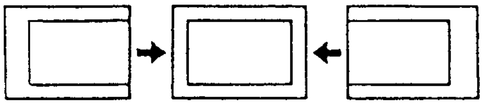
4-3. A BOARD, ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons "5" and "0" (Data Initialize), and "2" and "0" (Data Copy) to initialize the data.
3. Call each item number, and check if the respective screen shows the normal picture.
   In case some items are not well-adjusted, give them fine adjustment.
   Write the data per each item number (MUTE + 0).
4. Select item numbers "2A" (OP0) and "2B" (OP1) for mono, and 3F (OP0) and "40" (OP1) for STEREO, and respectively set the bit per model with command buttons "3" and "6".
5. Press commander buttons "8" and "0" (Test Normal) to return to the data that was set on the shipment from the factory.
   (= Cancel Service Mode.)

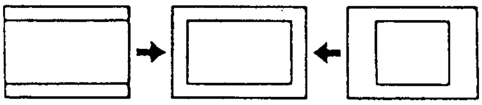
4-4. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

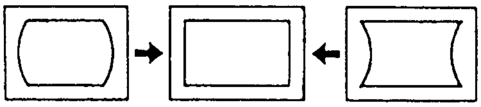
00 HSF (H.SHIFT)



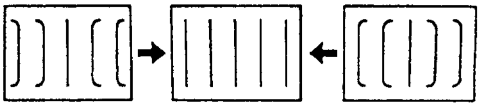
01 HSZ (H SIZE)



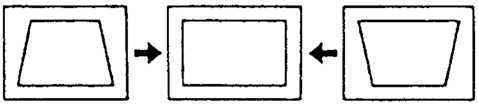
02 PAP (PIN AMP)



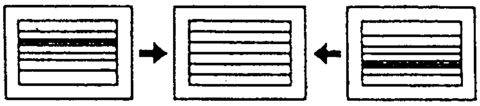
03 CNP (CORNER PIN)



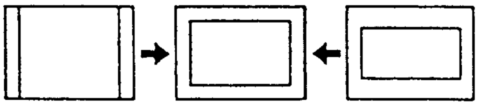
04 TLT (TILT)



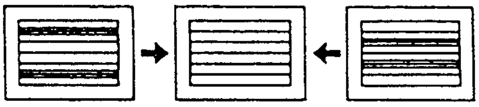
05 VSL (V SLOP)



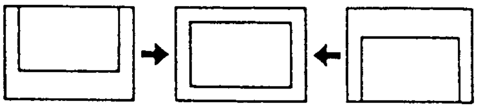
06 VAP (V AMP)



07 SCR (S CORRECTION)



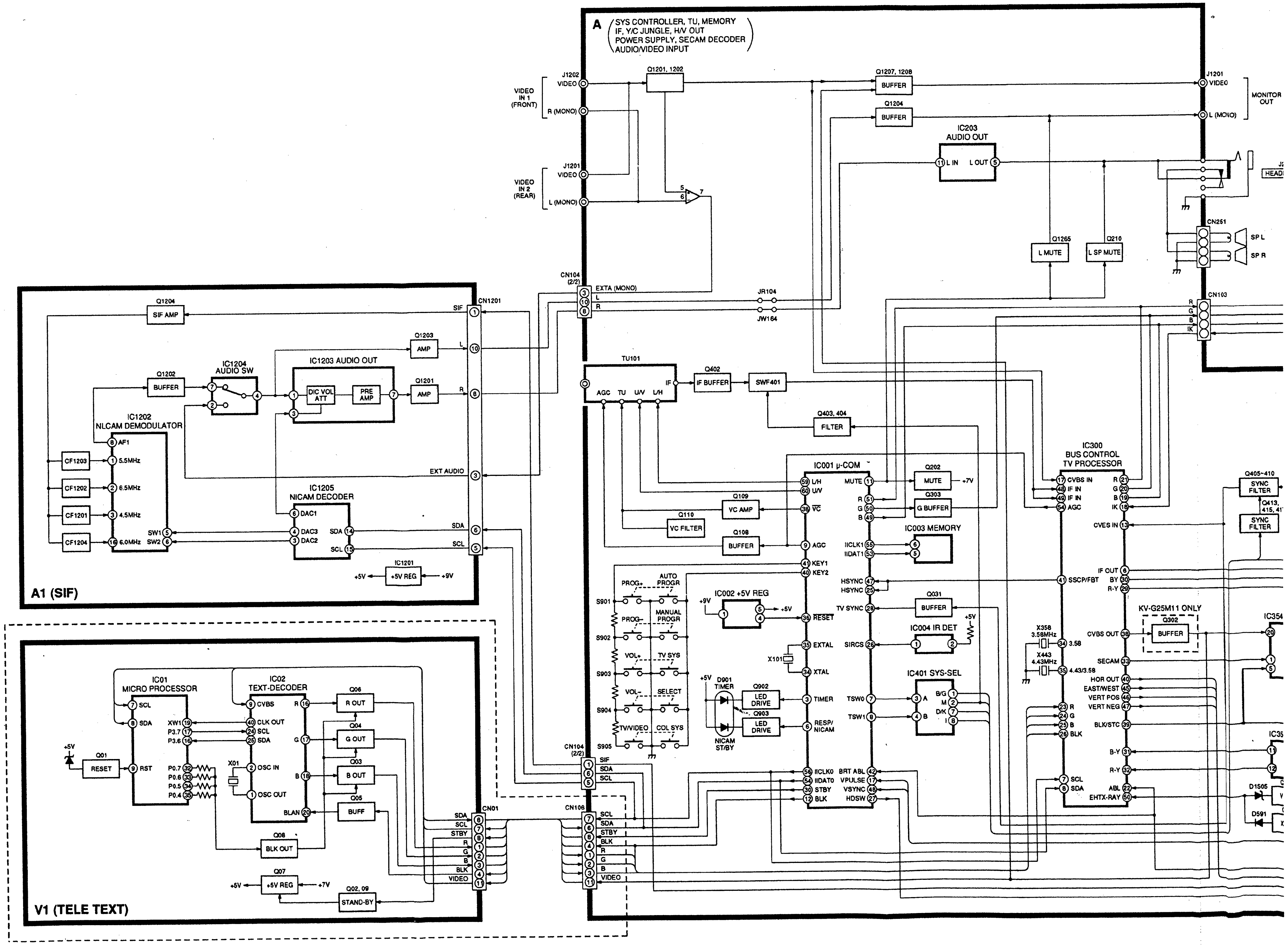
08 VSF (V SHIFT)

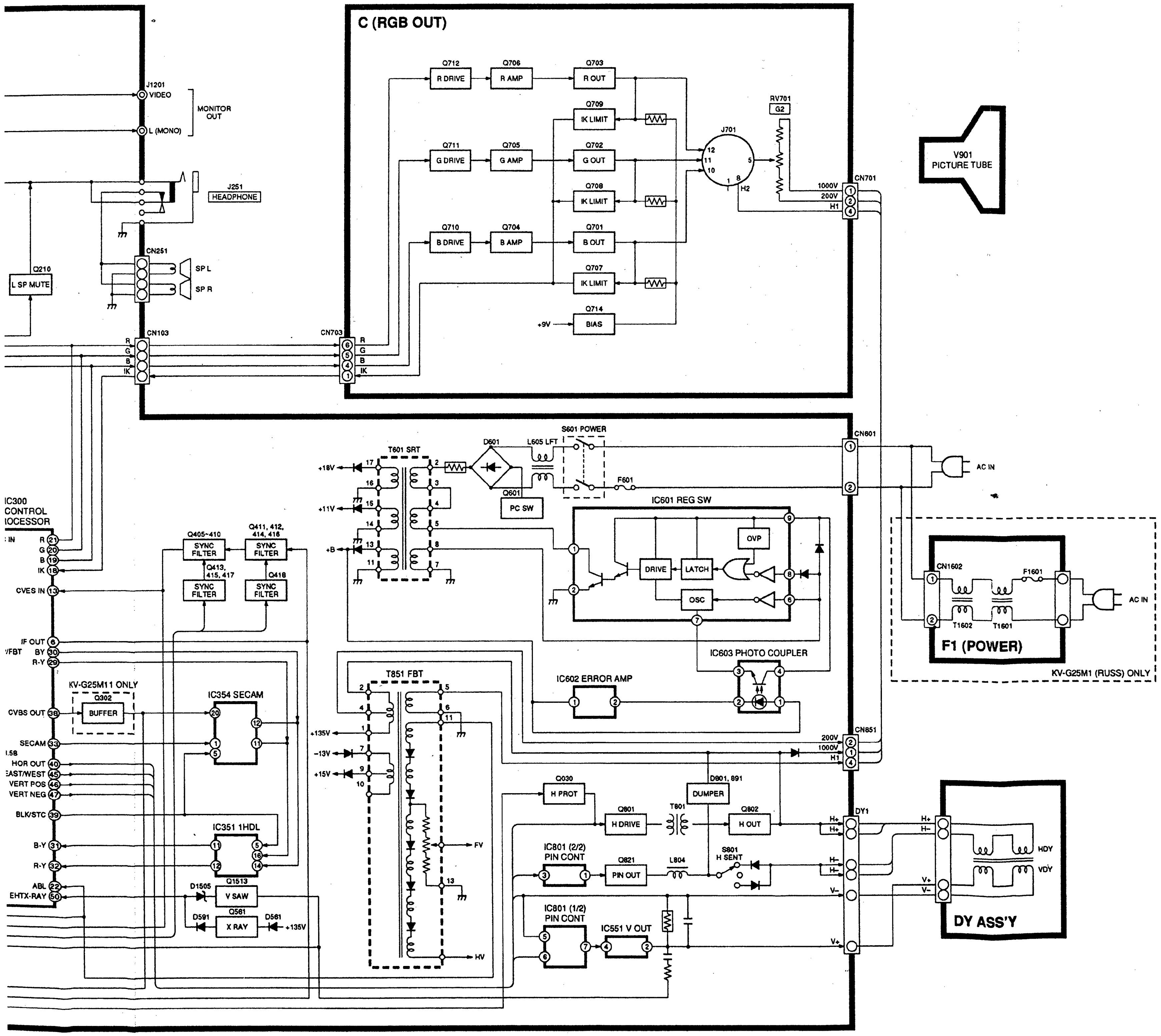


MEMO

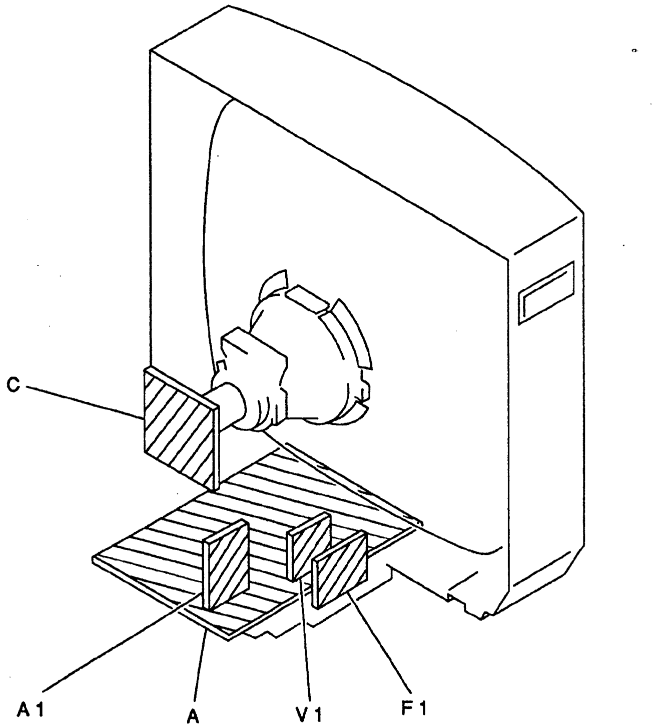
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAMS




C (RGB OUT)
Q712 R DRIVE
Q706 R AMP
Q703 R OUT
Q709 IK LIMIT
Q711 G DRIVE
Q705 G AMP
Q702 G OUT
Q708 IK LIMIT
Q710 B DRIVE
Q704 B AMP
Q701 B OUT
Q707 IK LIMIT
Q714 BIAS
+9V
J701
H2
RV701 G2
1000V
200V
H1
CN701
V901 PICTURE TUBE
J1201
VIDEO
L (MONO)
MONITOR OUT
J251 HEADPHONE
CN251
SP L
SP R
Q210 L SP MUTE
CN103
CN703
R
G
B
IK
IC300 CONTROL PROCESSOR
CVES IN
IF OUT
FBT
BY
R-Y
KV-G25M11 ONLY
Q302 BUFFER
CVBS OUT
SECAM
HOR OUT
EAST/WEST
VERT POS
VERT NEG
BLK/STC
B-Y
R-Y
ABL
EHTX-RAY
Q405-410 SYNC FILTER
Q411, 412, 414, 416 SYNC FILTER
Q413, 415, 417 SYNC FILTER
Q418 SYNC FILTER
IC354 SECAM
IC351 1HDL
D1505
Q1513 V SAW
D591
Q561 X RAY
D561
+135V
T601 SRT
+18V
+11V
+B
D601
L605 LFT
S601 POWER
Q601 PC SW
F601
CN801
AC IN
IC601 REG SW
DRIVE
LATCH
OVP
OSC
IC603 PHOTO COUPLER
IC602 ERROR AMP
T851 FBT
+135V
-13V
+15V
FV
HV
CN851
200V
1000V
H1
Q030 H PROT
D801, 891 DUMPER
Q801 H DRIVE
T801
Q802 H OUT
IC801 (2/2) PIN CONT
Q821 PIN OUT
L804
S801 H SENT
IC801 (1/2) PIN CONT
IC551 V OUT
DY1
H+
H-
V+
V-
HDY
VDY
DY ASS'Y
CN1602
F1601
T1602
T1601
F1 (POWER)
KV-G25M1 (RUSS) ONLY

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
  kΩ = 100Ω, MΩ = 1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4W (CHIP: 1/10W)
- -▭- : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
  no mark : PAL
  (   ) : SECAM
  ⟨   ⟩ : NTSC 4.43
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- * : Can not be measured.
- Circled numbers are waveform reference.
- ━━━ : B + bus.
- ━ ━ ━ : B – bus.
- ➡ : signal path.

Reference Information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

PRINTED WIRING BOARD

A [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE
H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

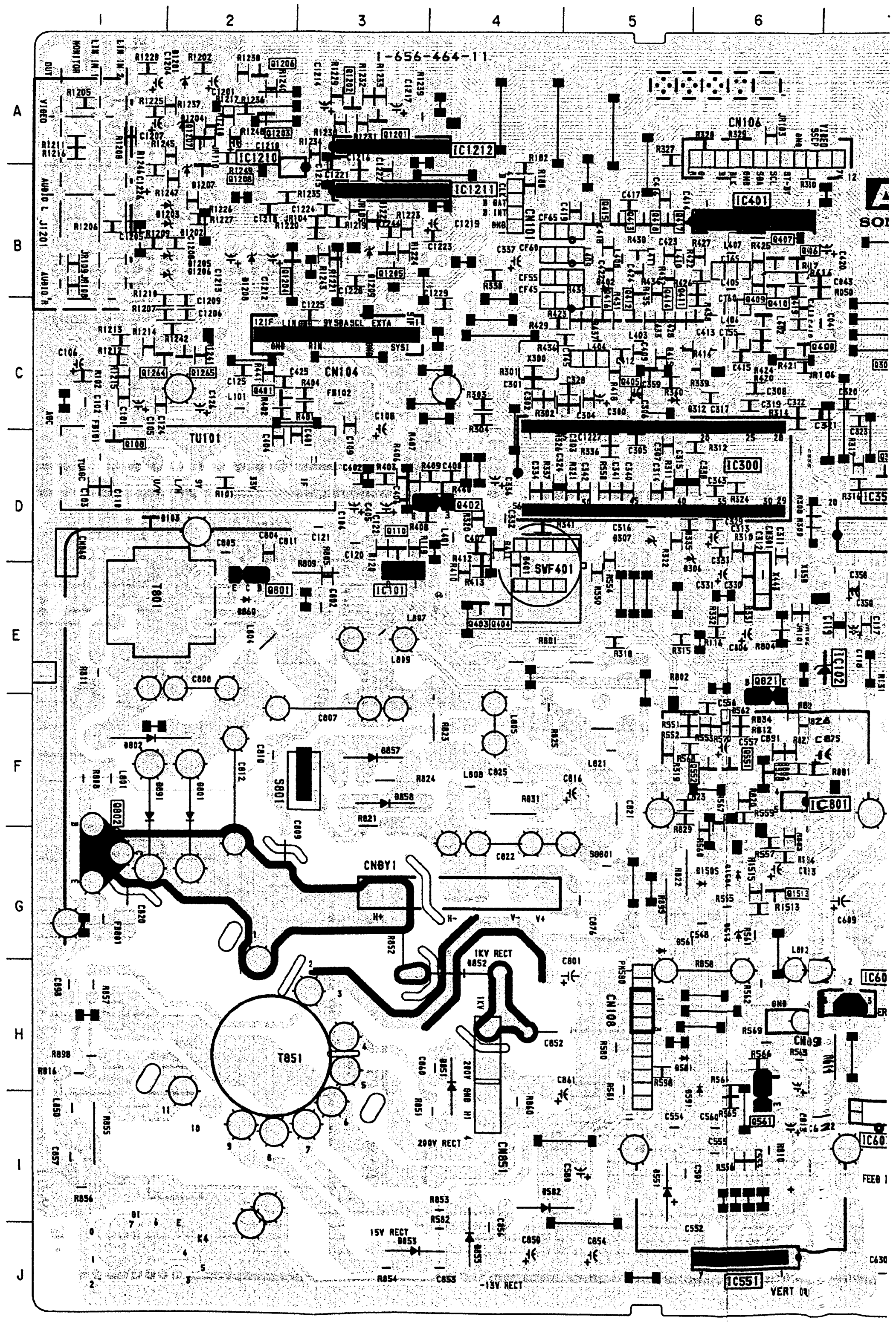
A BOARD

IC	
IC001	D-11
IC002	E-10
IC003	E-11
IC004	I-13
IC102	E-7
IC203	B-10
IC300	D-6
IC351	D-8
IC354	D-7
IC401	B-6
IC521	E-8
IC551	J-6
IC601	J-8
IC602	H-7
IC603	I-7
IC801	F-6
IC1210	A-2

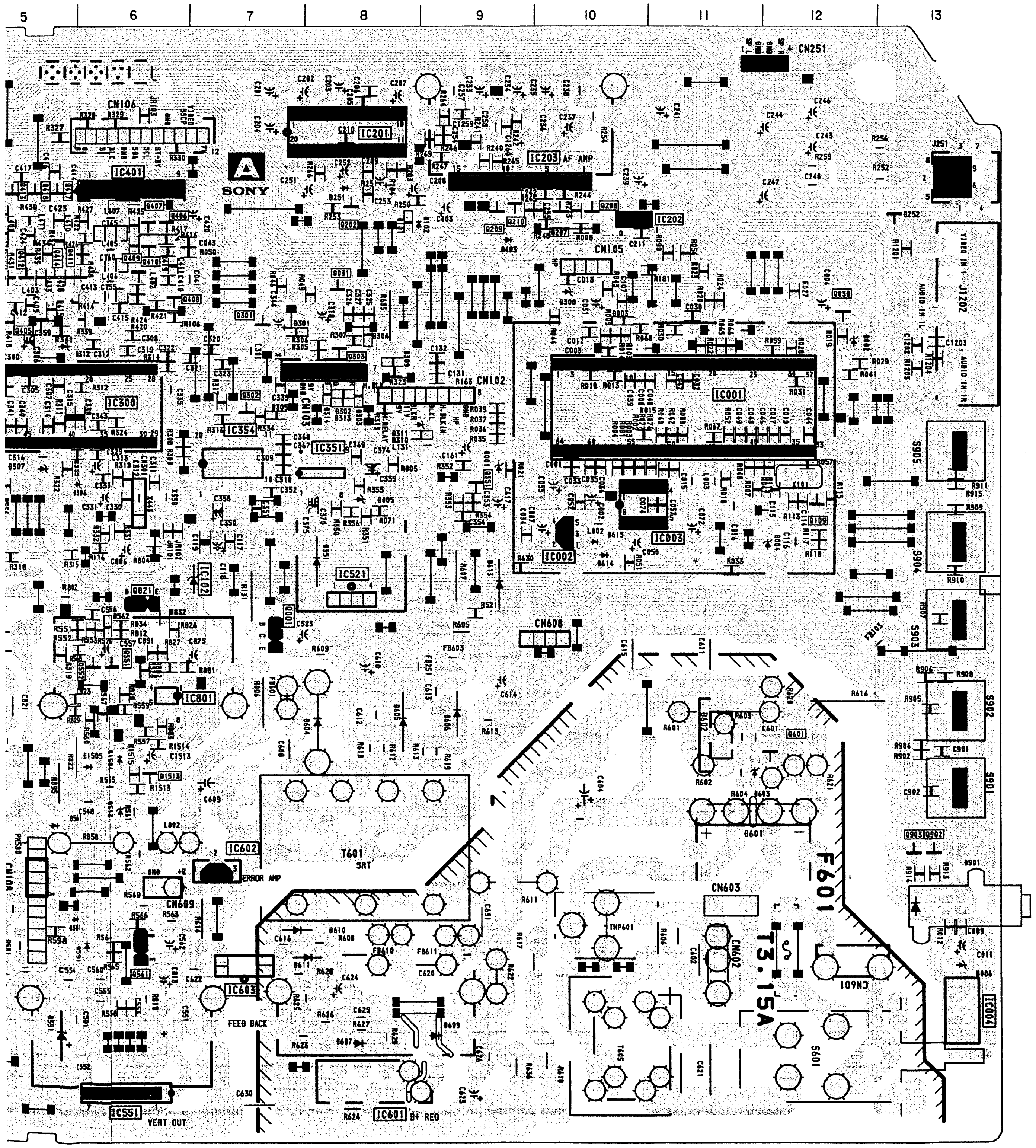
TRANSISTOR	
Q030	C-12
Q031	C-8
Q108	D-1
Q109	E-12
Q110	D-3
Q202	B-8
Q207	B-10
Q208	B-10
Q210	B-9
Q301	C-7
Q302	D-7
Q303	C-8
Q402	D-4
Q403	E-4
Q404	E-4
Q405	C-5
Q406	B-6
Q407	B-6
Q408	C-6
Q409	C-6
Q410	B-6
Q411	C-6
Q412	C-5
Q413	B-5
Q414	C-5
Q415	B-5
Q416	C-5
Q417	B-5
Q418	B-5
Q561	I-6
Q601	G-12
Q801	E-2
Q802	G-1
Q821	E-6
Q902	H-13
Q903	H-13
Q1201	A-3
Q1202	A-3
Q1203	A-2
Q1204	B-2
Q1207	A-2
Q1208	B-2
Q1265	C-2
Q1513	G-6

DIODE	
D001	D-9
D002	C-12
D003	C-10
D004	E-12
D005	E-8
D101	B-8
D102	B-9
D103	D-1
D251	B-8
D252	B-13
D301	C-7
D302	D-8
D303	D-8
D304	C-8
D305	D-7
D306	D-6
D307	D-5
D308	C-10
D310	D-8
D311	D-8
D312	C-5
D313	D-8
D314	D-8
D351	E-8
D401	D-4
D402	B-5
D403	B-9
D513	G-6
D551	I-5
D561	G-5
D591	H-6
D601	G-11
D602	G-11
D603	G-11
D604	G-8
D605	G-8
D606	F-9
D607	I-8
D609	I-9
D610	H-7
D611	I-8
D801	F-2
D802	F-1
D851	H-4
D852	H-4
D853	J-3
D855	J-4
D857	F-3
D858	F-3
D860	E-2
D891	F-1
D901	H-13
D1201	A-2
D1202	B-2
D1207	B-2
D1208	B-2
D1504	G-6
D1505	G-6

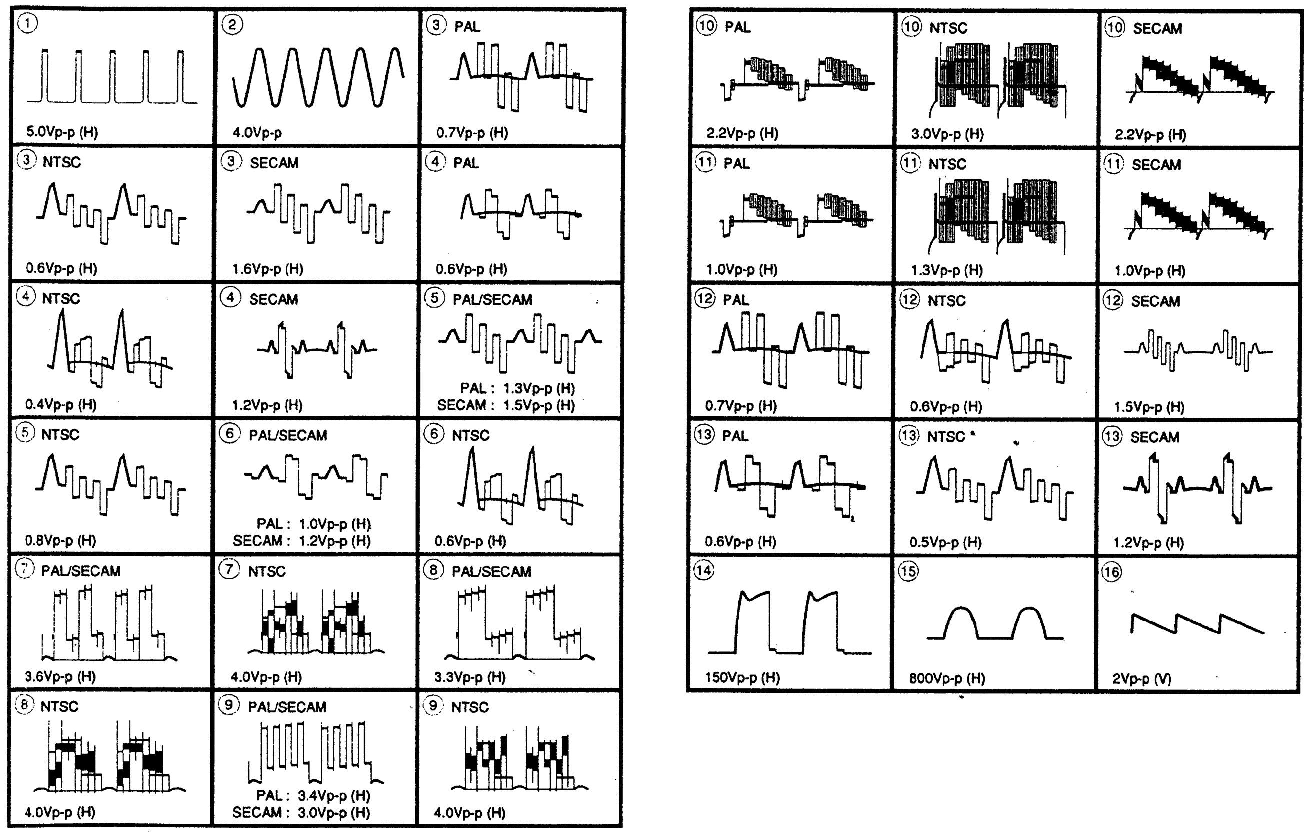
– A Board –

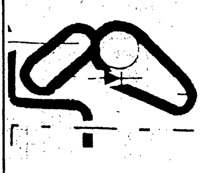


EO INPUT



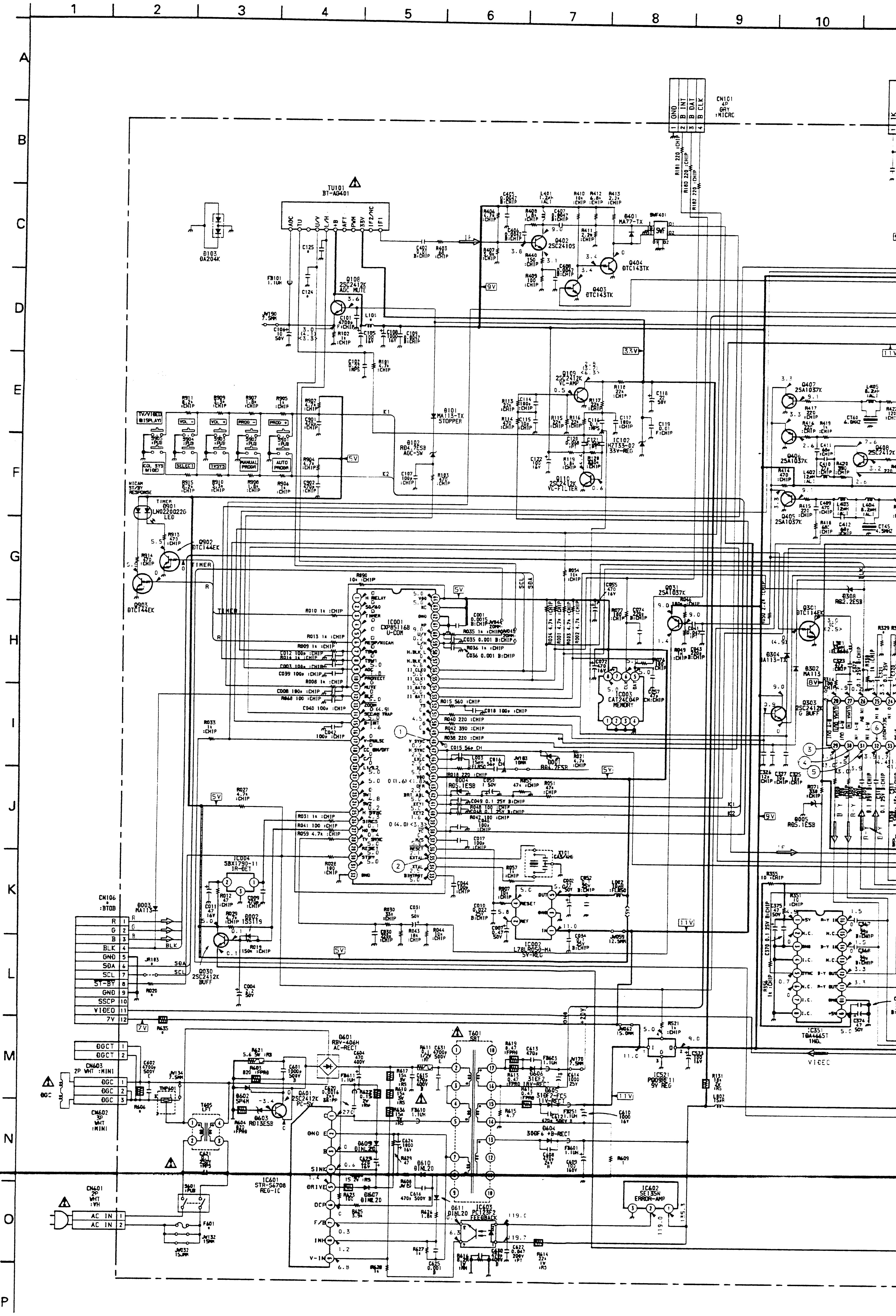
A BOARD WAVEFORMS

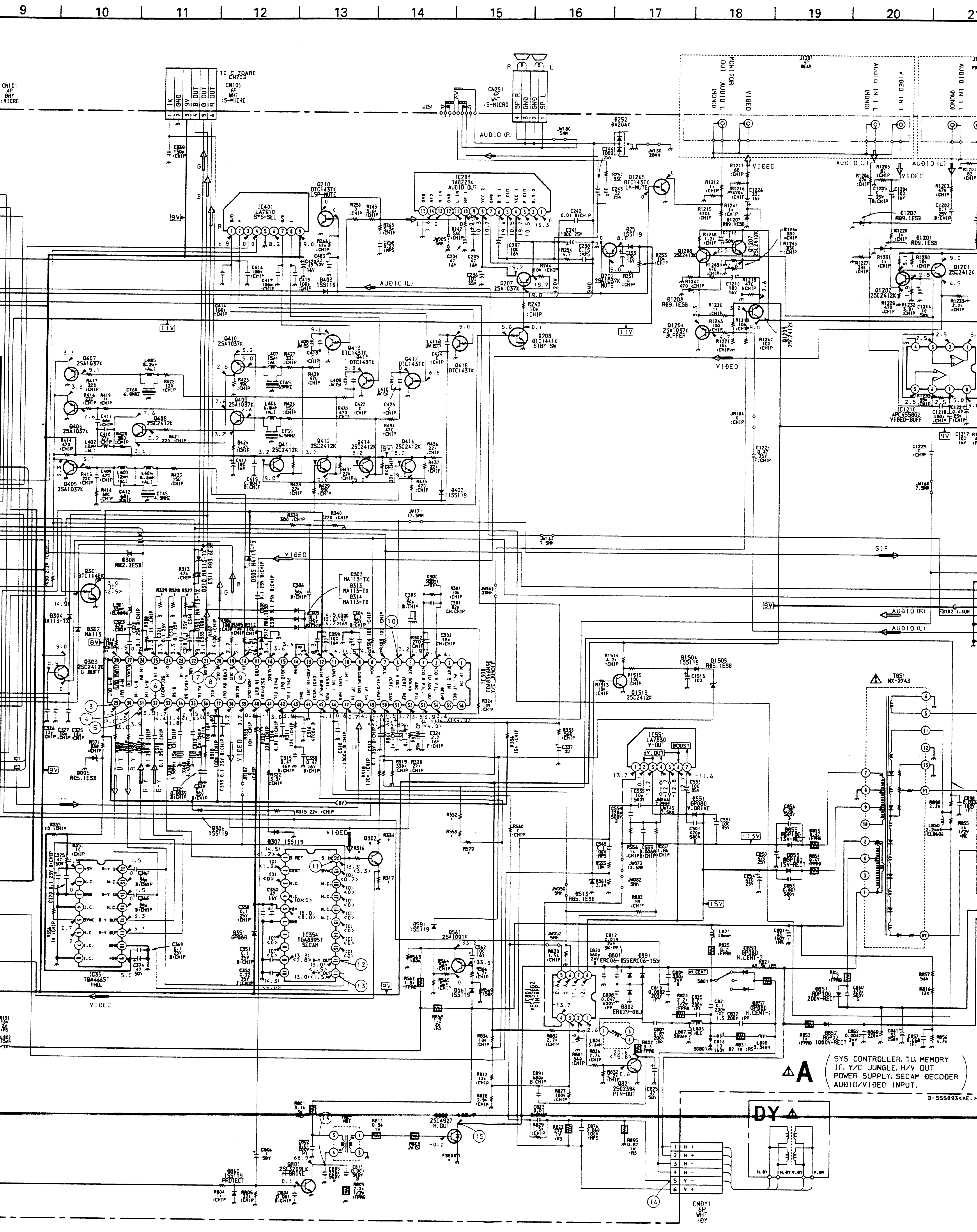




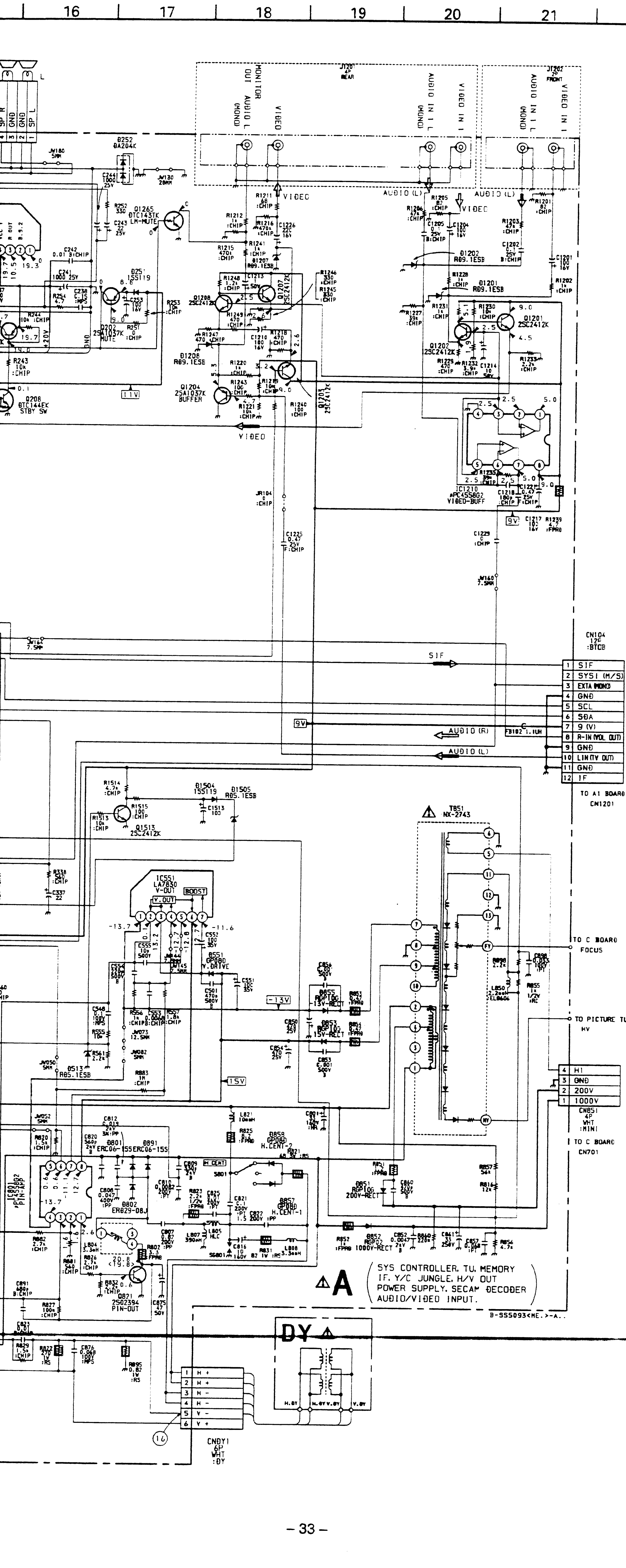
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(1) Schematic Diagram of A Board





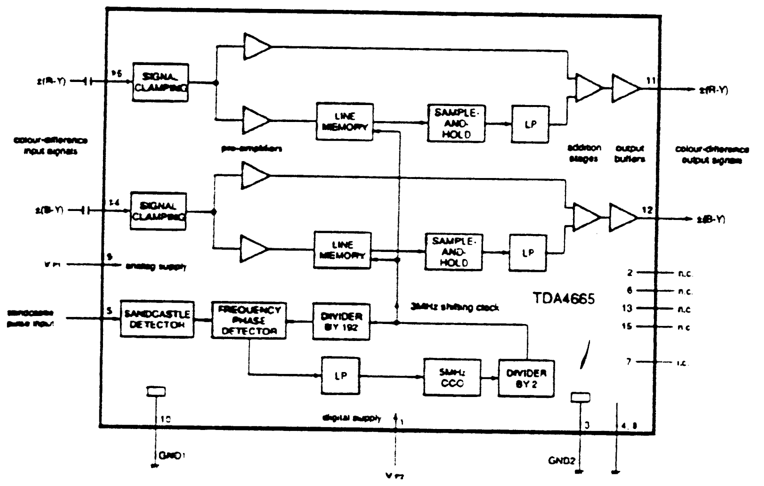
⚠A SYS CONTROLLER, TU, MEMORY
IF, Y/C JUNGLE, H/V OUT
POWER SUPPLY, SECAM DECODER
AUDIO/VIDEO INPUT.



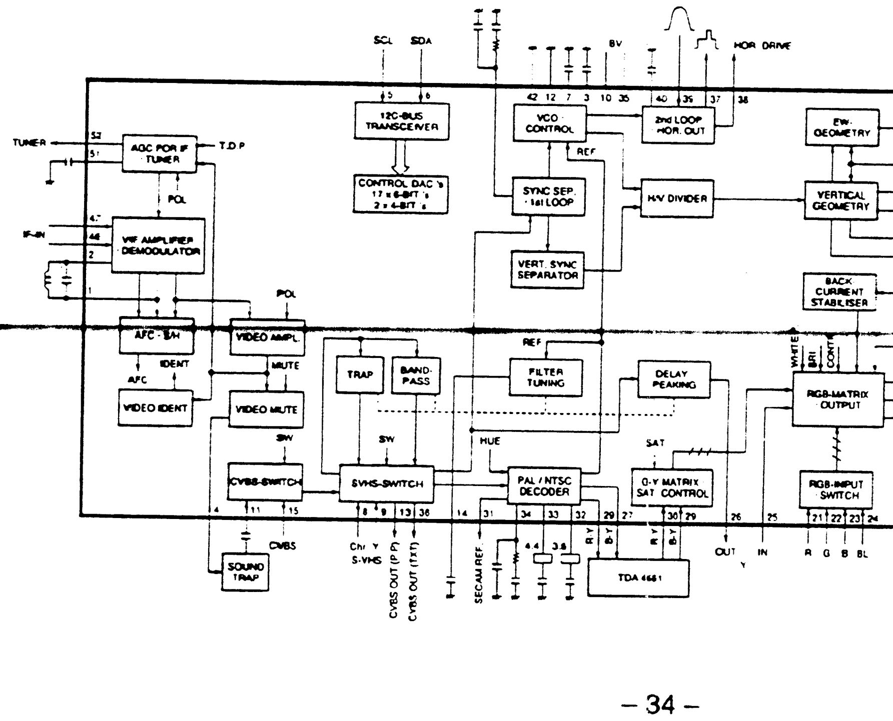
A BOARD ✱ MARK LIST

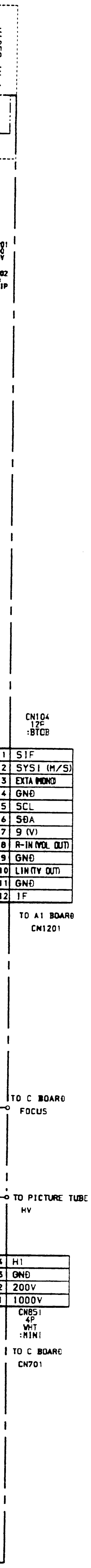
	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(
CN106	NOT USED	NOT USED	NOT US
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD
F601	T3.15A	T3.15A	NOT US
FB801	1.1uH	1.1uH	1.9uH
JR103	NOT USED	NOT USED	NOT US
JW032	NOT USED	NOT USED	15MM
JW132	NOT USED	NOT USED	15MM
Q302	NOT USED	NOT USED	NOT US
R020	NOT USED	NOT USED	NOT US
R316	NOT USED	NOT USED	NOT US
R317	NOT USED	NOT USED	NOT US
R327	0 : CHIP	0 : CHIP	0 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP
R334	NOT USED	NOT USED	NOT USE
R552	NOT USED	NOT USED	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP
R635	NOT USED	NOT USED	NOT USE

A BOARD IC351 TDA4665T



A BOARD IC300 TDA8366N3D

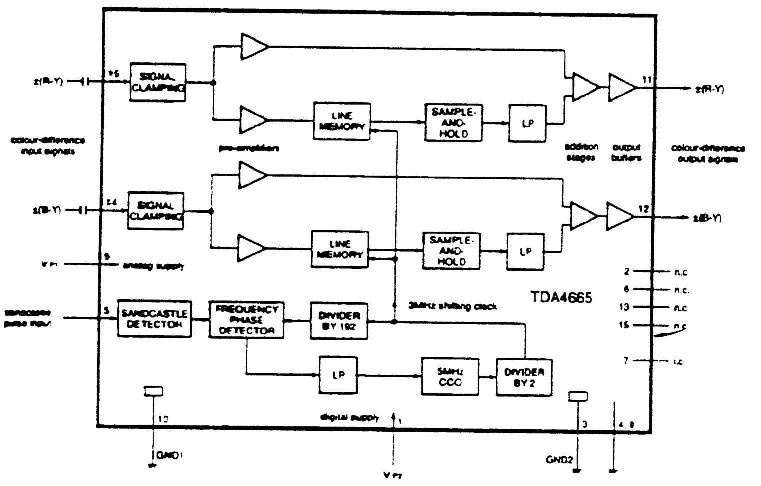




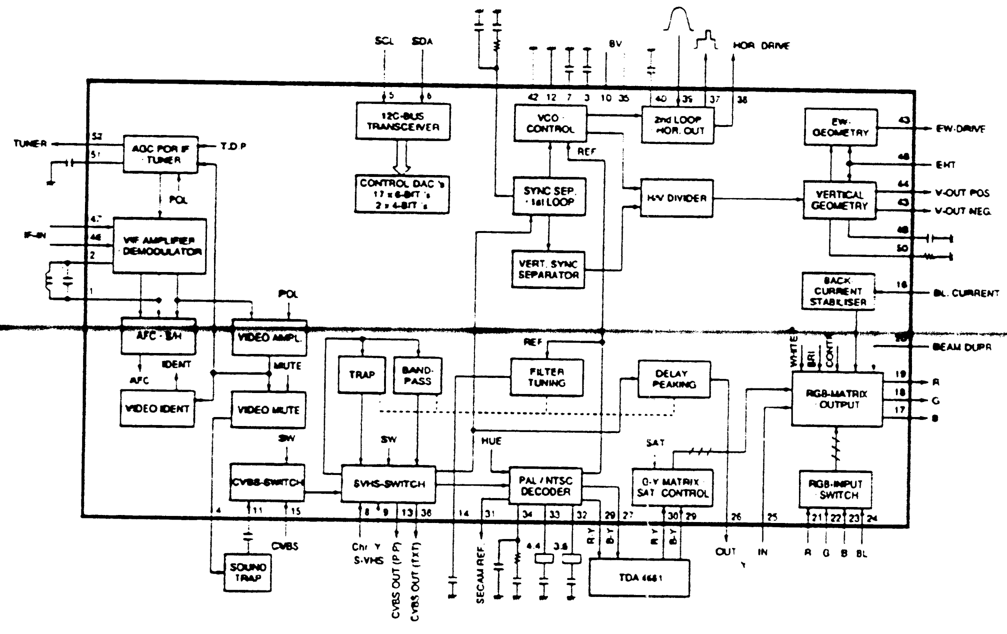
A BOARD * MARK LIST

	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(RUSS)	KV-G25M11
CN106	NOT USED	NOT USED	NOT USED	12P : BTOB
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD CN1602	TO POWER CORD
F601	T3.15A	T3.15A	NOT USED	T3.15A
FB801	1.1uH	1.1uH	1.9uH	1.1uH
JR103	NOT USED	NOT USED	NOT USED	0 : CHIP
JW032	NOT USED	NOT USED	15MM	NOT USED
JW132	NOT USED	NOT USED	15MM	NOT USED
Q302	NOT USED	NOT USED	NOT USED	2SC2412K
R020	NOT USED	NOT USED	NOT USED	100 : CHIP
R316	NOT USED	NOT USED	NOT USED	4.7K : CHIP
R317	NOT USED	NOT USED	NOT USED	1K : CHIP
R327	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R334	NOT USED	NOT USED	NOT USED	470 : CHIP
R552	NOT USED	NOT USED	220K : CHIP	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R635	NOT USED	NOT USED	NOT USED	22 2W :RS

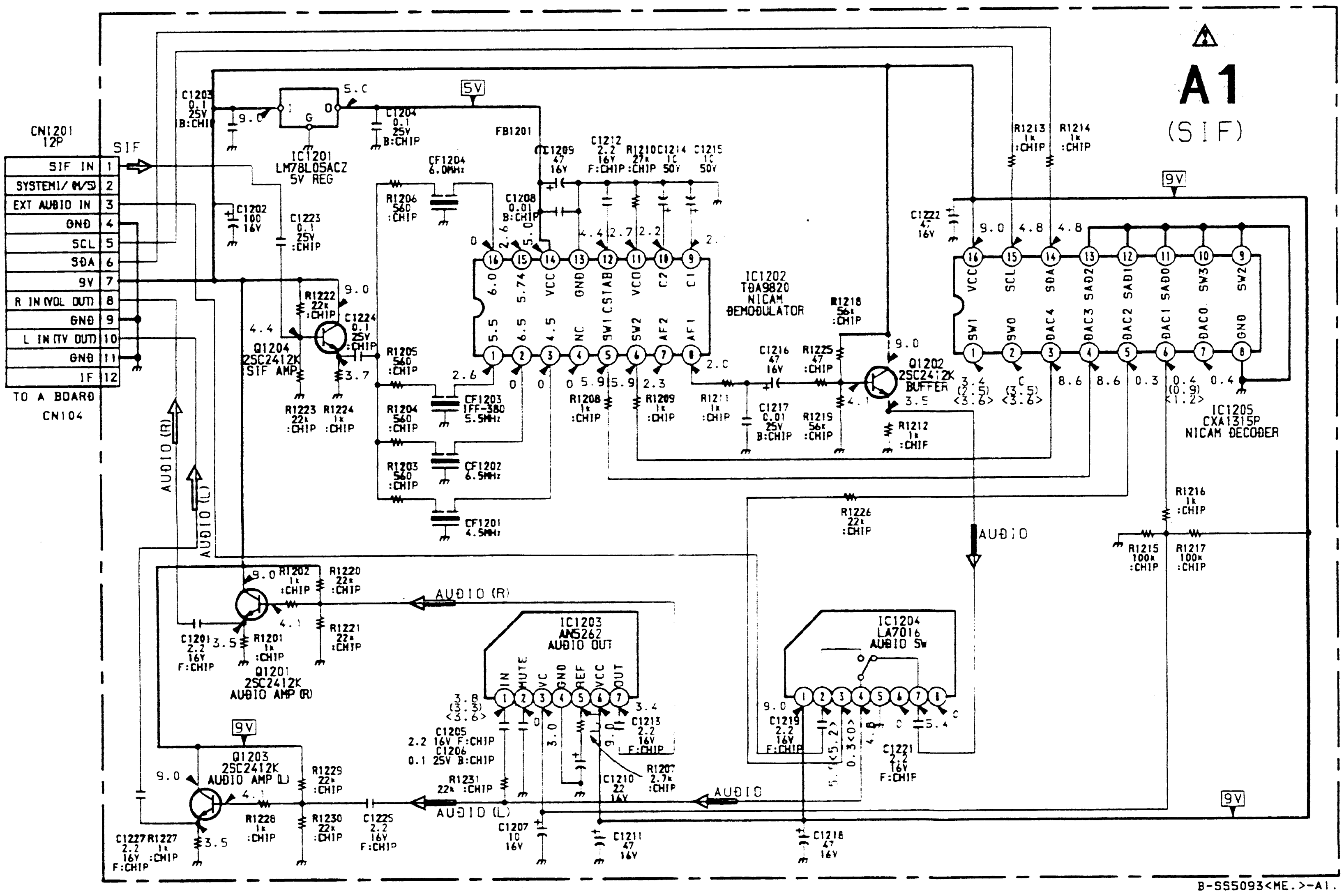
A BOARD IC351 TDA4665T

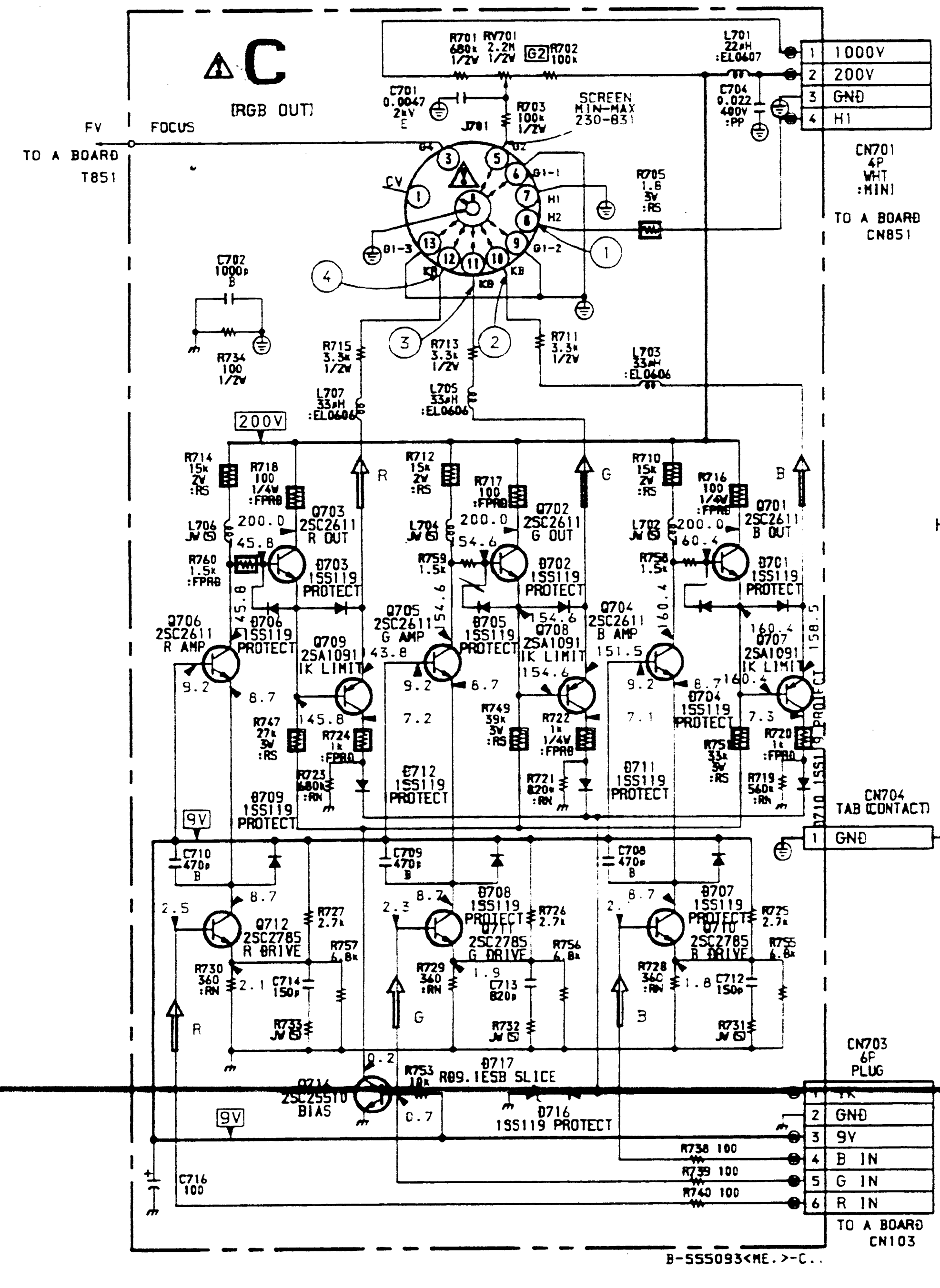


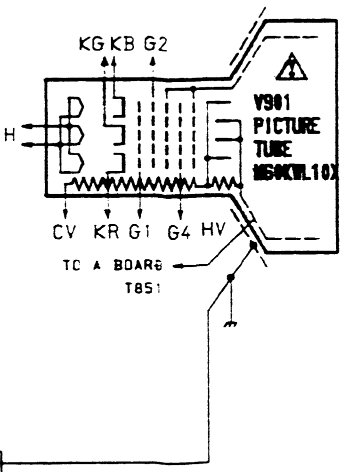
A BOARD IC300 TDA8366N3D



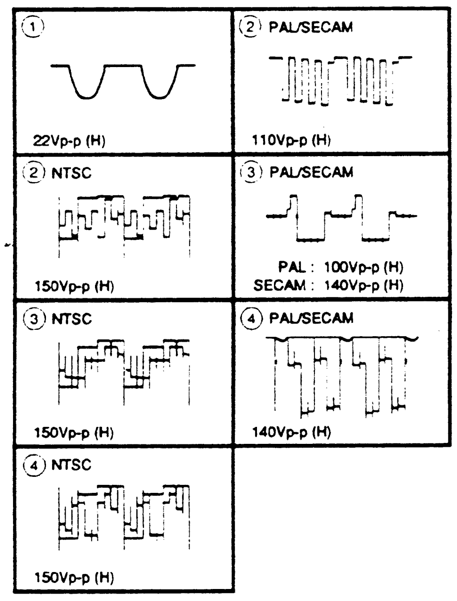
(2) Schematic Diagrams of A1, C, F1 and V1 Boards

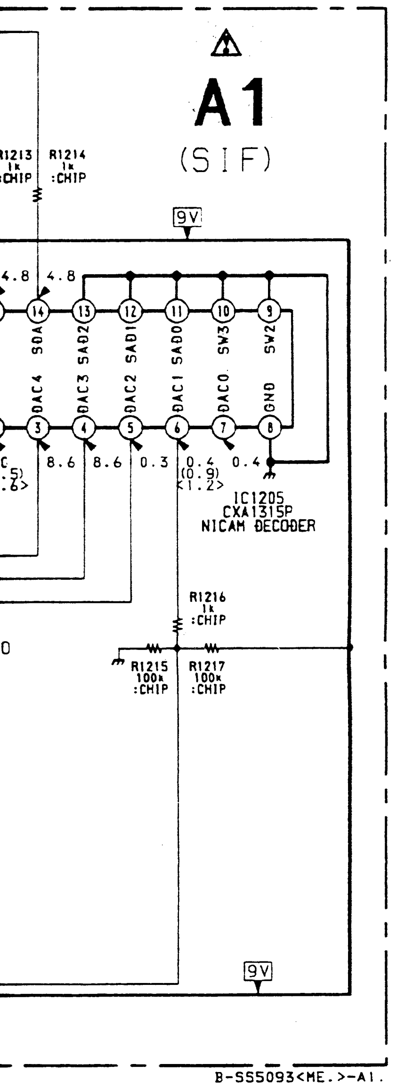


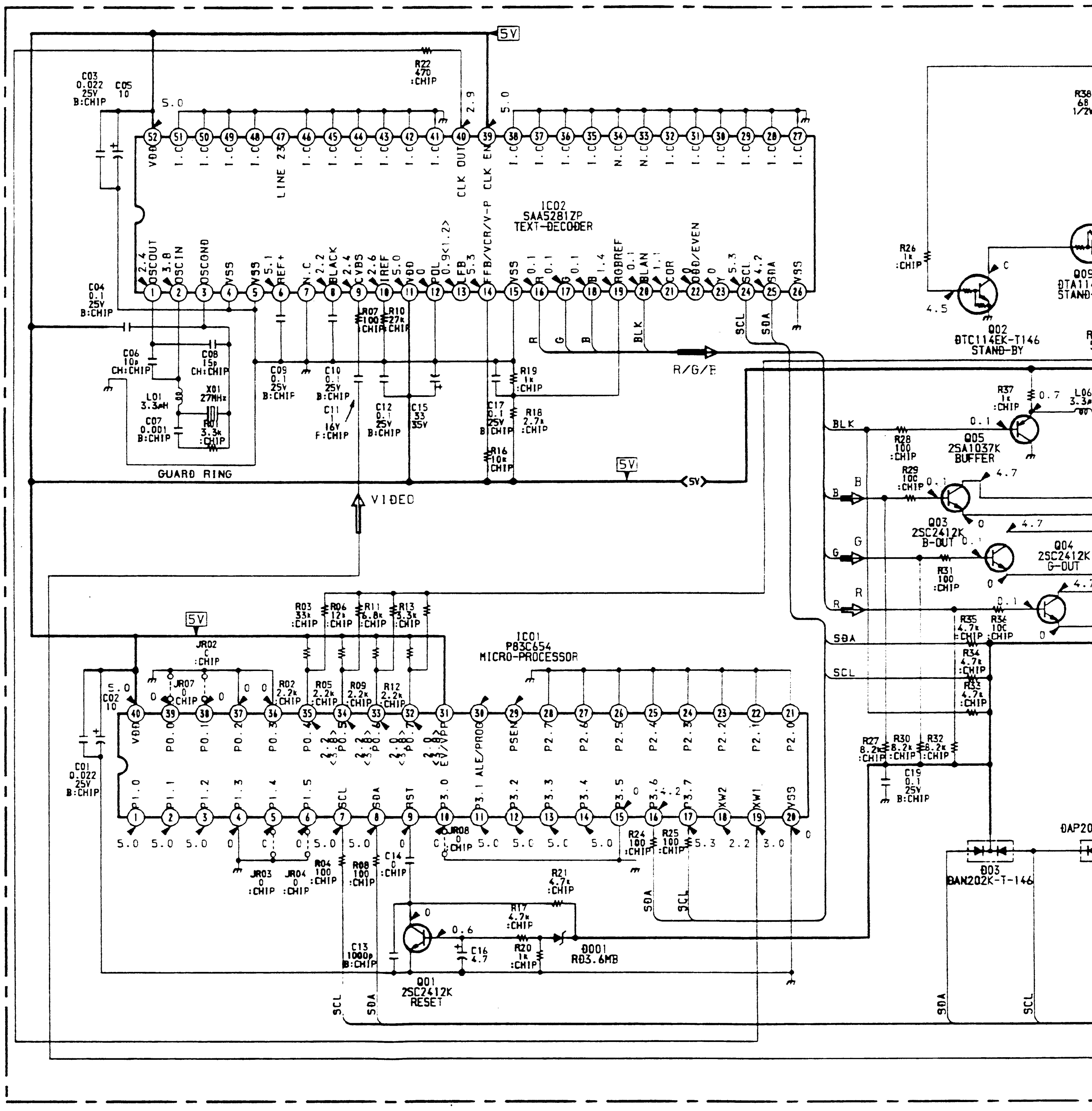




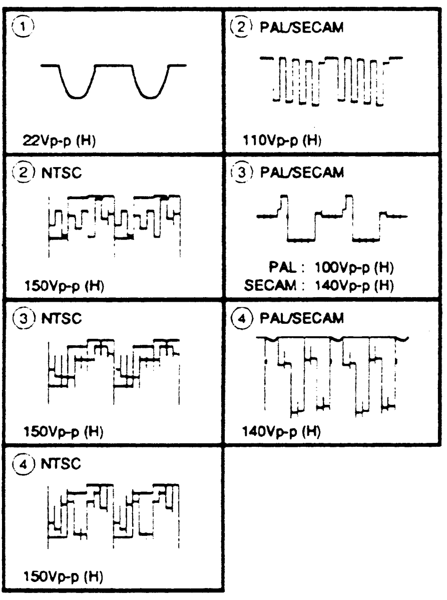
C BOARD WAVEFORMS

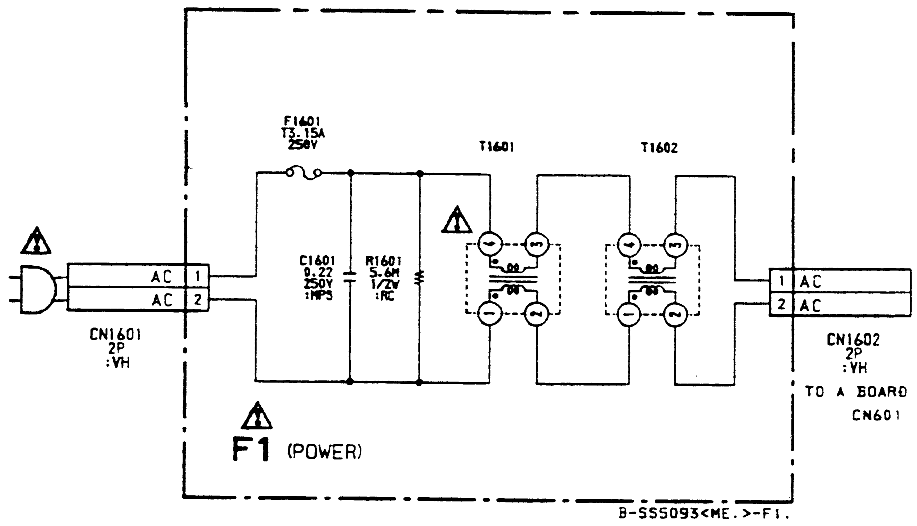




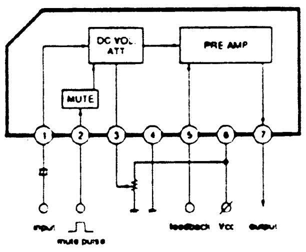


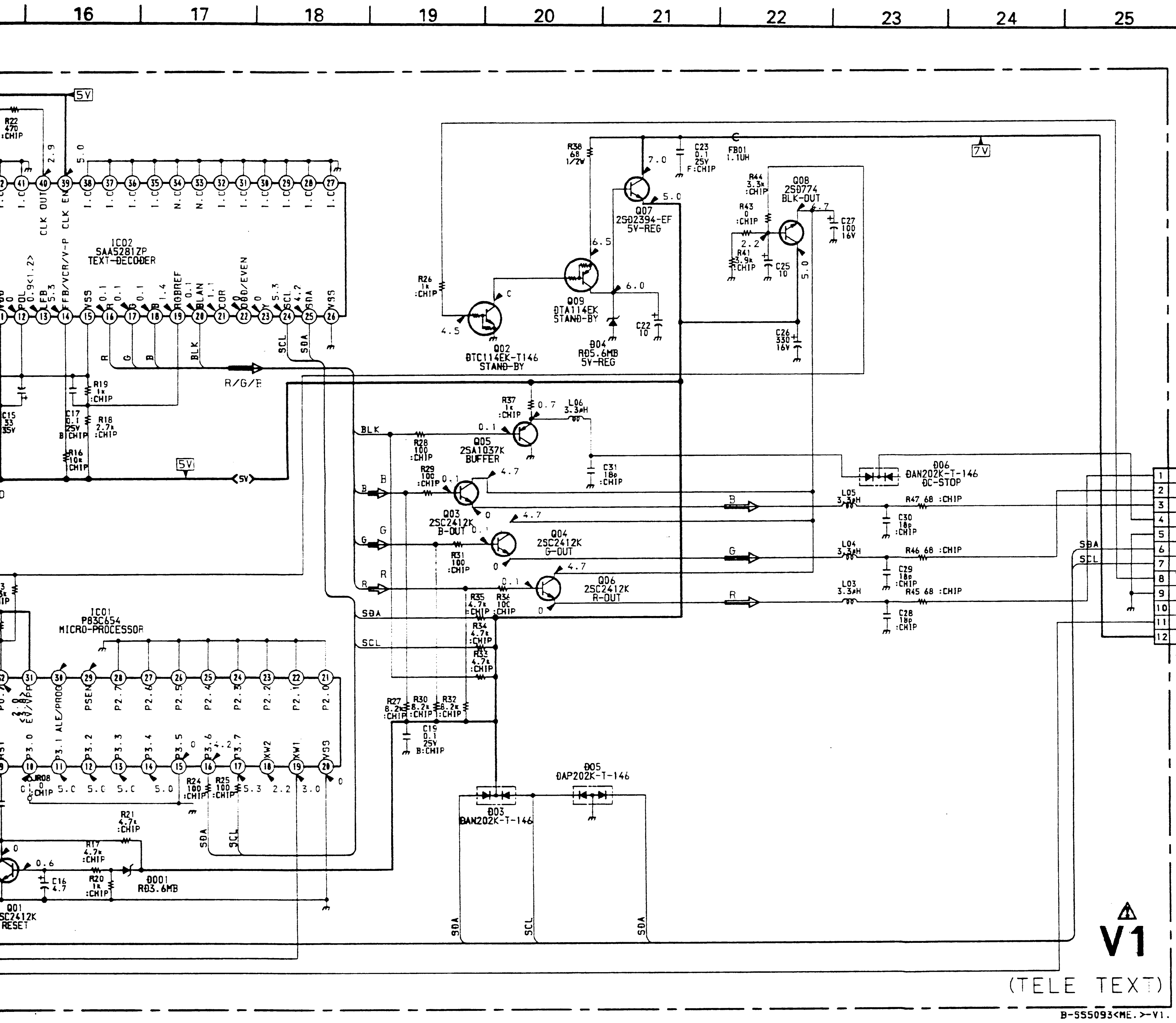
C BOARD WAVEFORMS



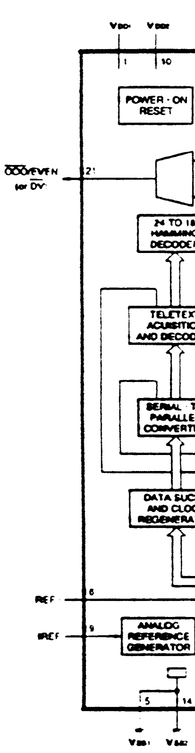


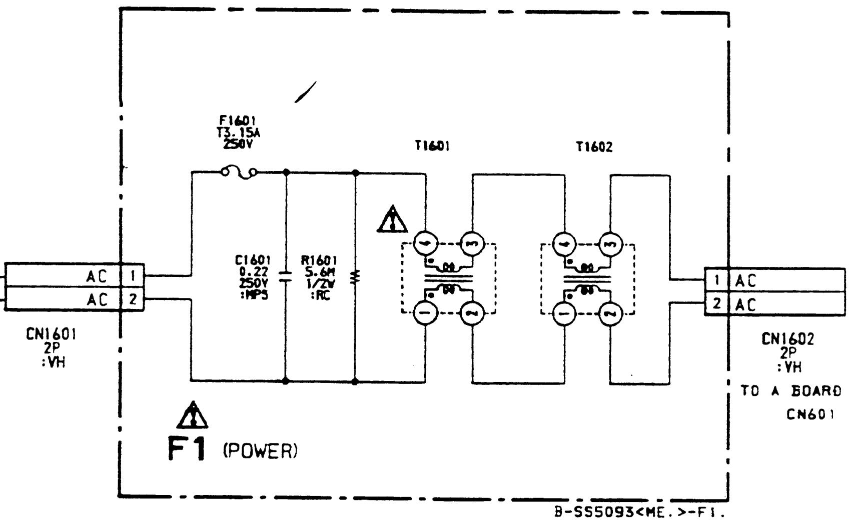
A1 BOARD IC1203 AN5262





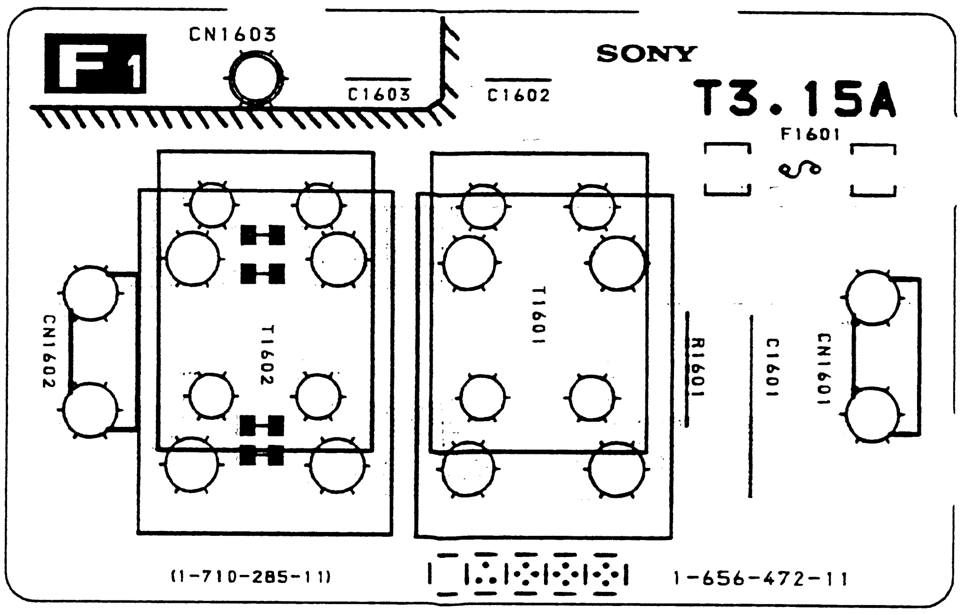
V1 BOAR

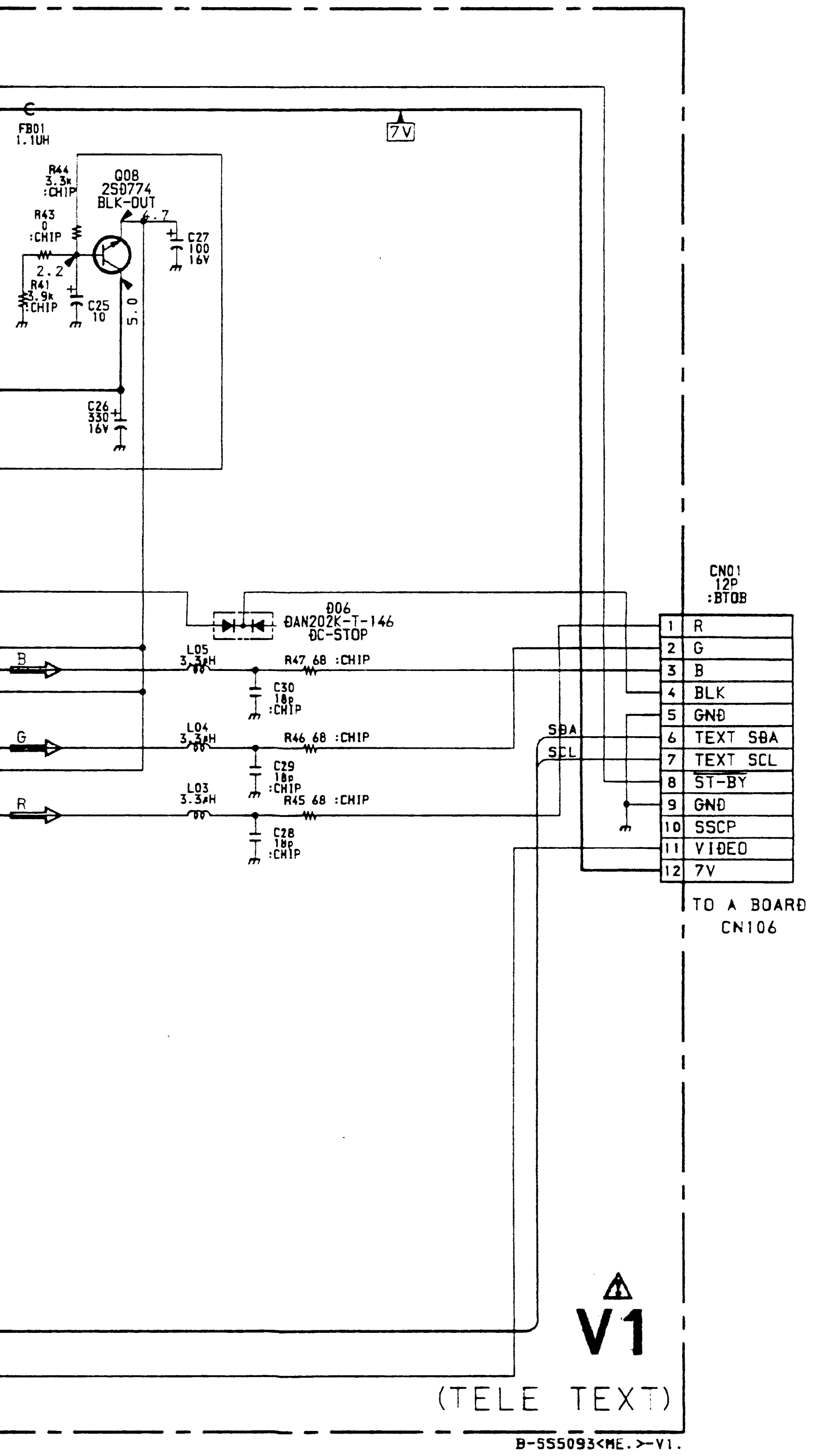

POWER-ON RESET
TELETEXT ACQUISITION AND DECODE
SERIAL TO PARALLEL CONVERTER
DATA SLICER AND CLOCK REGENERATOR
ANALOG REFERENCE GENERATOR



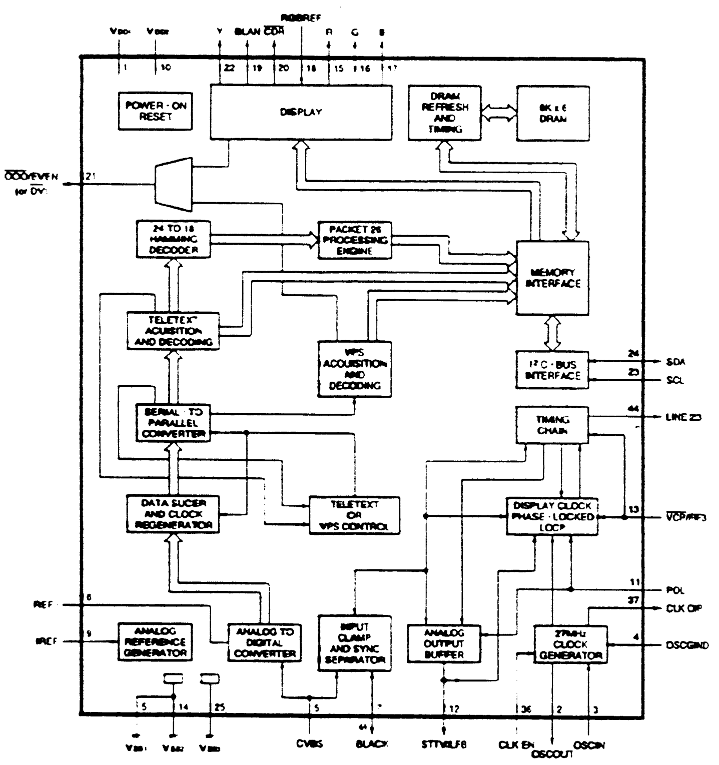
PRINTED WIRING BOARD **F1** [POWER]

– F1 Board –

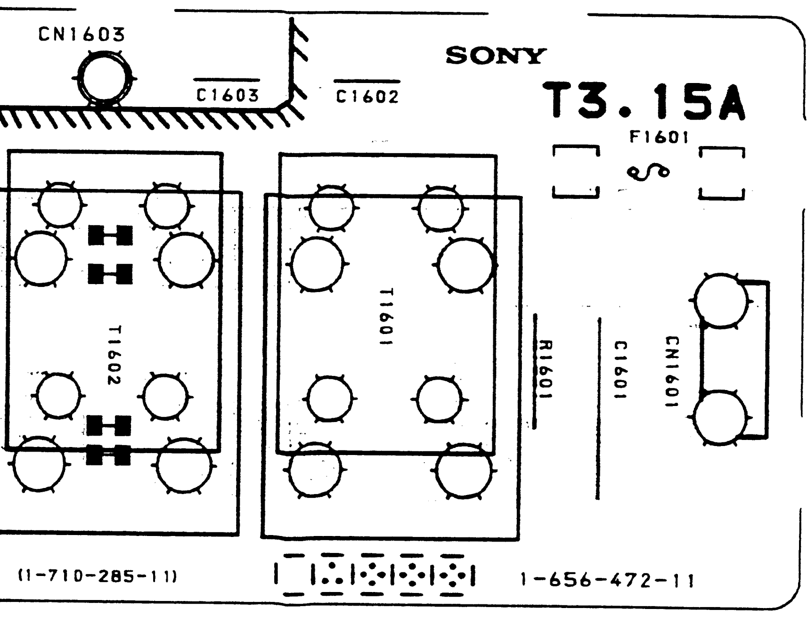




V1 BOARD IC02 SAA5281ZP

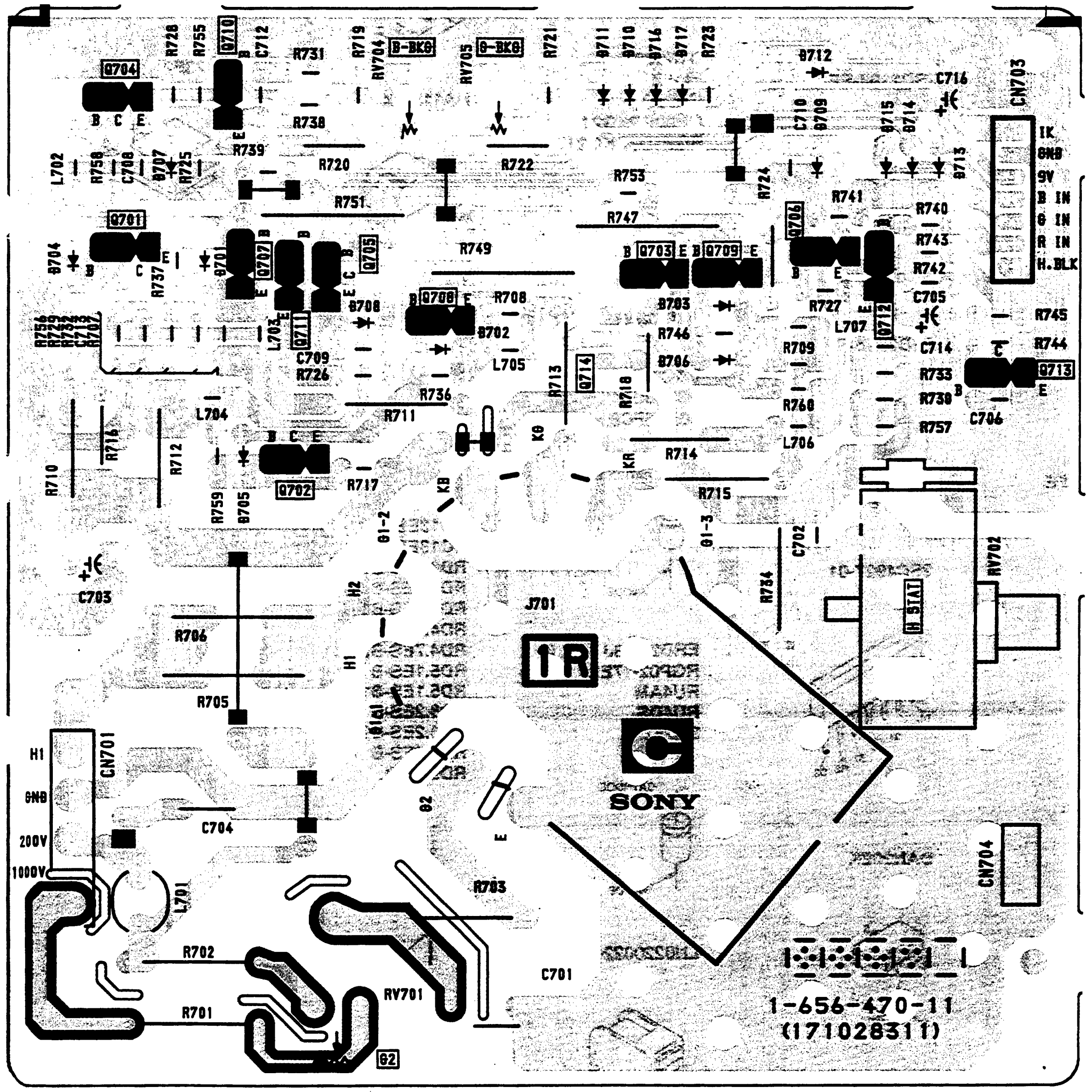


WIRING BOARD **F1** [POWER]

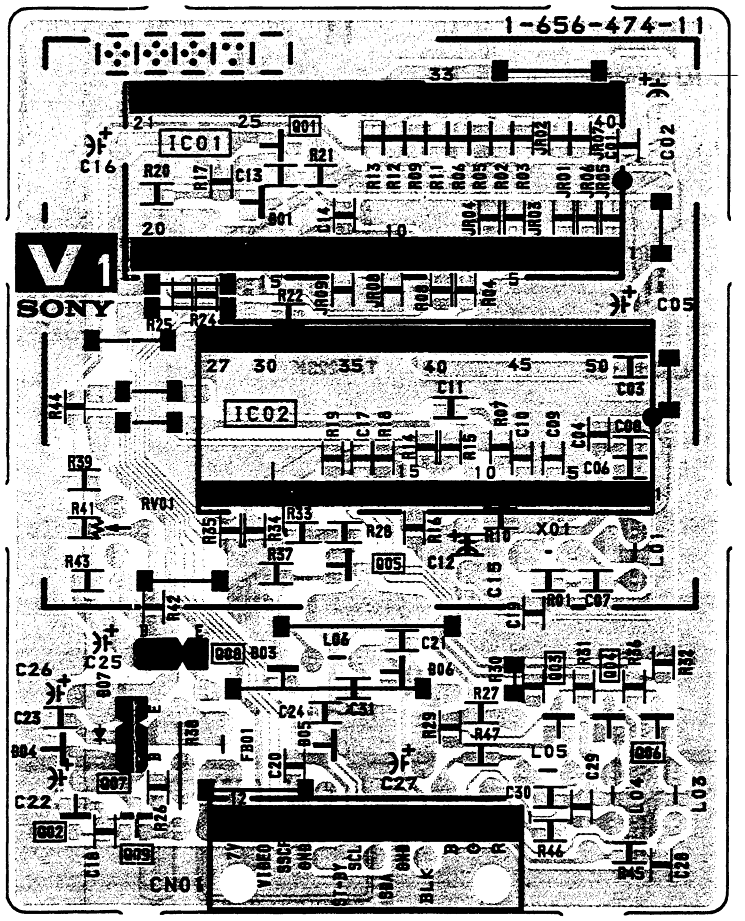


PRINTED WIRING BOARDS **A1** [SIF] **C** [RGB OUT] **V1** [TELE TEXT]

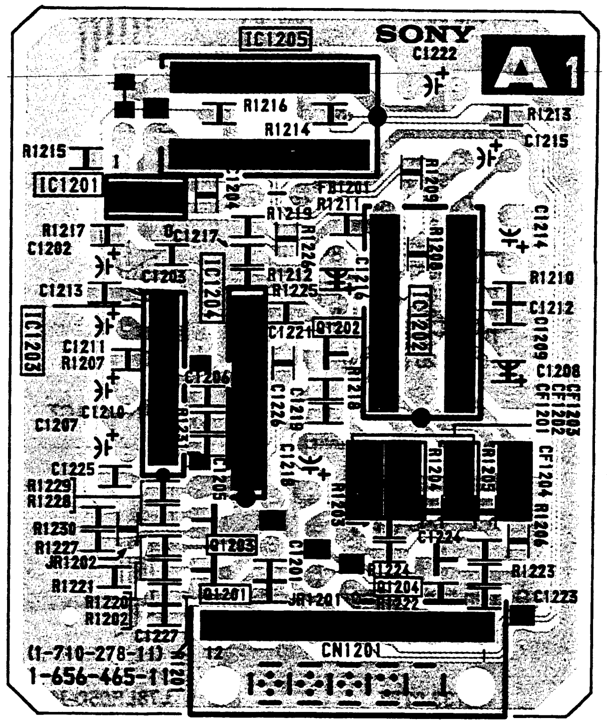
– C Board –



– V1 Board –



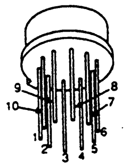
– A1 Board –



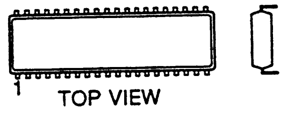
MC-Service

5-4. SEMICONDUCTORS

AN5262

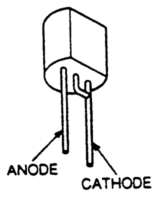


CAT24C04P (8PIN)
CXA1110BS (30PIN)
CXA1315P (16PIN)
CXP85116B-615S (64PIN)
CXP85224A-010S (64PIN)
P83C654 (40PIN)
SAA5281ZP (52PIN)
TDA4665T (16PIN)
TDA8366N3D (56PIN)
TDA8395T (20PIN)
TDA8424 (20PIN)
TDA9820 (16PIN)

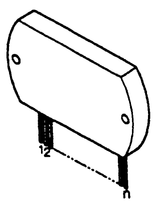


Dual In-line Package
Pin 6 ~ 98

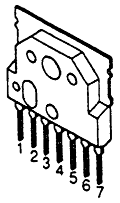
HZT33-02TE
µPC574J



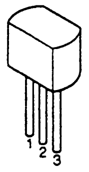
LA7016



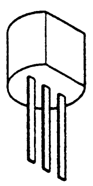
LA7830



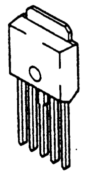
LA7910



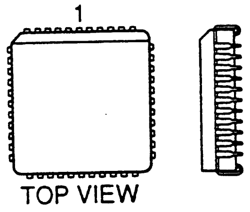
LM78L05ACZ



L78LR05D-MA

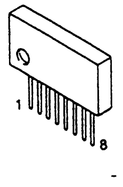


MSP3410 (44PIN)

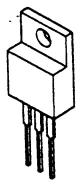


Quad Flat J-leaded Package
Pin 20 ~ 996

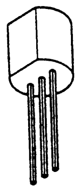
NJM2234L



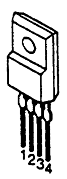
NJM7805FA



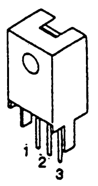
NJM78L12A



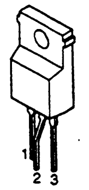
PQ09RE11



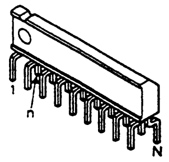
SBX1790-11
SBX1790-51



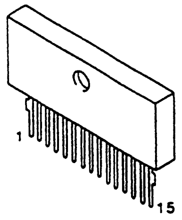
SE-135N



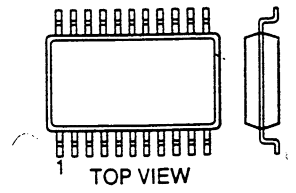
STR-S6708



TA8223K

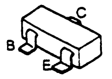


µPC4558G2 (8PIN)

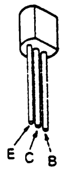


Small Outline L-leaded Package
Pin 8 ~ 98

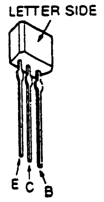
DTA114EK
DTC114EK
DTC143TK
DTC144EK
2SA1037K-QR
2SA1162-G
2SC1623-L5L6
2SC2412K-QR
2SC2712-YG



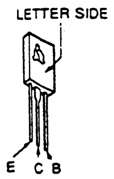
2SA1091
2SA1091-O
2SC2551-O



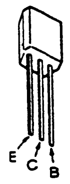
2SC2410SN
2SC2785-HFE



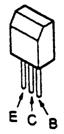
2SC2611



2SC2669-O



2SC3209LK
2SD774-34



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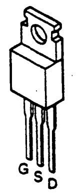

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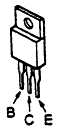
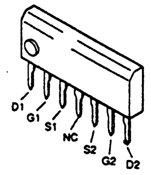
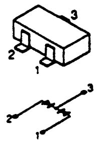


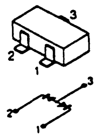
2SC4927-01



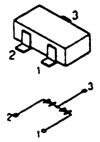
DAN202K



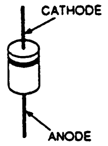
DAP202K



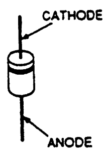
DA204K



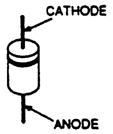
D1NL20
EL-1Z
GP08D
GP08DPKG23
RGP10GPKG23



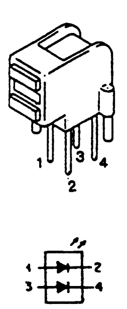
ERC06-15S
S3L20UF4
30DF6FC8



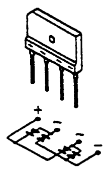
ERD29-08J
RGP02-17EL
RU4AM
RU4DS
31DF2



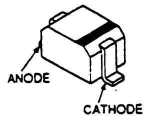
LN0220022G



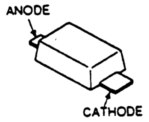
LN4SB60
RBV-406H



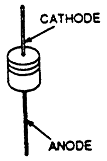
MA113-TX



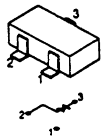
MA77-TX



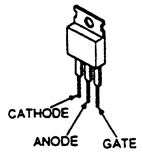
RD13ES-B
RD13ES-B2
RD2.2ES-B
RD3.6ES-B
RD3.6ES-B1
RD4.7ES-B
RD4.7ES-B2
RD5.1ES-B
RD5.1ES-B1
RD8.2ES-B
RD8.2ES-B2
RD9.1ES-B
RD9.1ESL



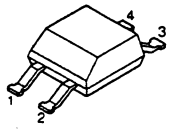
RD3.6M-B
RD3.6M-B1
RD5.6M-B
RD5.6M-B2



5P4M



PC123F2



SECTION 6
EXPLODED VIEWS

NOTE:

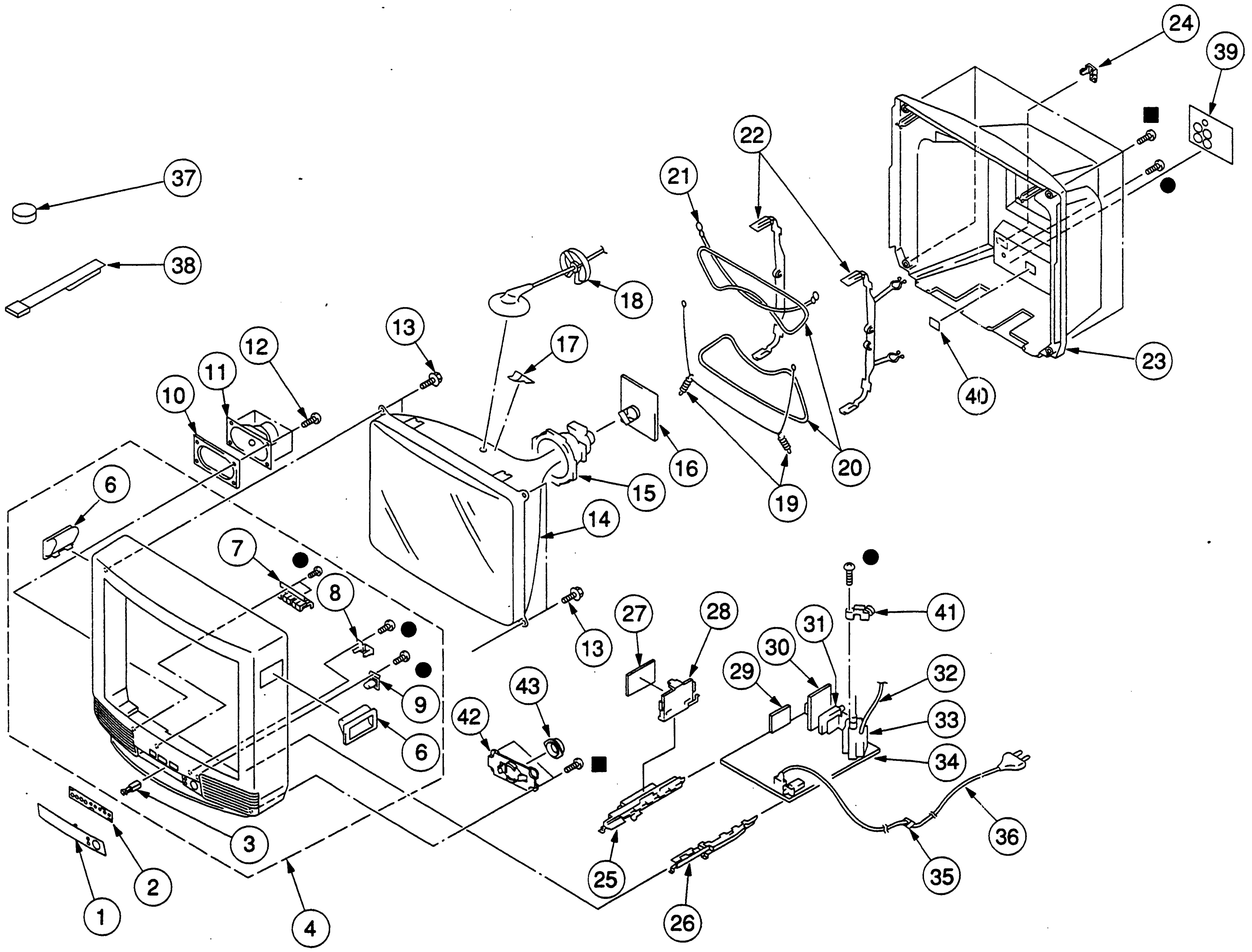
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

6-1. CHASSIS

●: BVTP3 × 12 7-685-648-79
■: BVTP4 × 16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-048-702-11	DOOR, CONTROL	
2	4-048-575-11	LABEL, CONTROL	
3	4-627-936-01	LOCK, MINIATURE SIDE	
4	X-4032-787-1	BEZNET ASSY	
6	4-048-691-01	HANDLE	
7	4-048-687-01	BUTTON, MULTI	
8	4-049-123-01	GUIDE, LIGHT	
9	4-048-688-01	BUTTON, POWER	
10	4-037-613-01	CUSHION, SP	
11	1-504-305-11	SPEAKER (5X12CM)	
12	4-043-388-01	SCREW, STEP TAPPING	
13	4-390-505-01	SCREW (7), TAPPING	
14	⚠8-733-242-05	PICTURE TUBE (M60KWL10X)	
15	⚠8-451-404-11	DEFLECTION YOKE (Y25GXAS)	
16	*A-1331-428-A	C BOARD, COMPLETE	
17	3-704-495-01	SPACER, DY	
18	*3-704-372-11	HOLDER, HV CABLE	
19	4-369-318-61	SPRING, TENSION	
20	⚠1-403-619-11	COIL, DEMAGNETIZATION	
21	4-043-827-11	BAND, DEGAUSSING COIL	
22	*4-042-988-01	HOLDER, DGC	
23	4-048-703-01	COVER, REAR	
24	4-049-130-01	CLAMP, CODE	
25	*4-048-690-01	RAIL (L), GUIDE	
26	*4-048-689-01	RAIL (R), GUIDE	
27	*A-1241-190-A	F1 BOARD, COMPLETE (KV-G25M1(RUSS))	
28	*4-049-158-01	BRACKET, F1 PC BOARD (KV-G25M1(RUSS))	
29	*A-1347-103-A	V1 BOARD, COMPLETE (KV-G25M11)	
30	*A-1292-869-A	A1 BOARD, COMPLETE	
31	⚠8-598-323-00	TUNER, BT-AG401	
32	1-900-212-02	LEAD ASSY, FOCUS	
33	⚠1-453-190-11	TRANSFORMER, FLYBACK (NX-2743//M3B)	
34	*A-1297-513-A	A BOARD, COMPLETE (KV-G25M1(ME))	
	*A-1297-552-A	A BOARD, COMPLETE (KV-G25M1(HK))	
	*A-1297-554-A	A BOARD, COMPLETE (KV-G25M1(RUSS))	
	*A-1297-566-A	A BOARD, COMPLETE (KV-G25M11)	
35	⚠4-389-778-11	HOLDER, AC CORD	
36	⚠1-574-062-22	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-G25M1(ME)/M1 (RUSS)/M11)	
	⚠1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-G25M1(HK))	
37	1-452-032-00	MAGNET, DISC	
38	X-4387-214-1	PERMALOY ASSY, CORRECTION	
39	4-049-121-01	LABEL, TERMINAL	
40	4-049-416-01	SHEET, BLIND	
41	4-039-460-01	HOLDER, FBT	
42	*4-049-124-01	BRACKET, SPEAKER	
43	1-544-453-21	SPEAKER (2CM)	

SECTION 7
ELECTRICAL PARTS LIST

A1

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : μH, UH : μH

REF. NO.	PART NO.	DESCRIPTION				REMARK
	*A-1292-869-A	A1 BOARD, COMPLETE				
		******************				
		<CAPACITOR>				
C1201	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1202	1-104-665-11	ELECT	100MF	20%	16V	
C1203	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1204	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1205	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1206	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1207	1-126-157-11	ELECT	10MF	20%	16V	
C1208	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C1209	1-104-664-11	ELECT	47MF	20%	16V	
C1210	1-124-234-00	ELECT	22MF	20%	16V	
C1211	1-104-664-11	ELECT	47MF	20%	16V	
C1212	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1213	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1214	1-124-907-11	ELECT	10MF	20%	50V	
C1215	1-124-907-11	ELECT	10MF	20%	50V	
C1216	1-104-664-11	ELECT	47MF	20%	16V	
C1217	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C1218	1-104-664-11	ELECT	47MF	20%	16V	
C1219	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1221	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1222	1-104-664-11	ELECT	47MF	20%	16V	
C1223	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1224	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1225	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1227	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
		<FILTER>				
CF1201	1-527-943-00	FILTER, CERAMIC				
CF1202	1-567-101-11	FILTER, CERAMIC				
CF1203	1-567-099-00	FILTER, CERAMICO				
CF1204	1-567-100-00	FILTER, CERAMIC				
		<CONNECTOR>				
CN1201	*1-770-748-11	CONNECTOR, BOARD TO BOARD 12P				
		<FERRITE BEAD>				
FB1201	1-412-911-11	INDUCTOR, FERRITE BEAD				
		<IC>				
IC1201	8-759-991-41	IC LM78L05ACZ				
IC1202	8-759-070-71	IC TDA9820				
IC1203	8-759-248-80	IC AN5262-(NT)				
IC1204	8-759-800-81	IC LA7016				
IC1205	8-752-057-18	IC CXA1315P				
		<TRANSISTOR>				
Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q1204	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
		<RESISTOR>				
R1201	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1202	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1203	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R1204	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R1205	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R1206	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R1207	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1208	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1209	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1210	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1211	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1212	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1213	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1214	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1215	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1216	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1217	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1218	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1219	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1220	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1221	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1222	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1223	1-216-081-00	METAL GLAZE	22K	5%	1/10W	

MC-Service

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REF. NO.	PART NO.	DESCRIPTION				REMARK
R1224	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1225	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R1226	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1227	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1228	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1229	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1230	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1231	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
**						
	*A-1297-513-A	A BOARD, COMPLETE (KV-G25M1(ME))				
	*A-1297-552-A	A BOARD, COMPLETE (KV-G25M1(HK))				
	*A-1297-554-A	A BOARD, COMPLETE (KV-G25M1(RUSS))				
	*A-1297-566-A	A BOARD, COMPLETE (KV-G25M11)				
		*****************				
	1-533-223-11	CLIP, FUSE				
	*1-580-798-11	CONNECTOR PIN (DY) 6P				
	*4-049-131-01	CASE (A), SHIELD				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
		<CAPACITOR>				
C001	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V	
C002	1-124-916-11	ELECT	22MF	20%	50V	
C003	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C004	1-124-925-11	ELECT	2.2MF	20%	50V	
C007	1-124-902-00	ELECT	0.47MF	20%	50V	
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C009	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C010	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C011	1-104-664-11	ELECT	47MF	20%	16V	
C012	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C015	1-101-884-00	CERAMIC	56PF	5%	50V	
C016	1-101-884-00	CERAMIC	56PF	5%	50V	
C017	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C018	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C030	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C031	1-124-903-11	ELECT	1MF	20%	50V	
C034	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C035	1-163-009-11	CERAMIC CHIP	0.001M	10	50V	
C036	1-163-009-11	CERAMIC CHIP	0.001M	10%	50V	
C039	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C040	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C041	1-130-491-00	MYLAR	0.047MF	5	50V	
C042	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C043	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C044	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C046	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C048	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C049	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C050	1-124-903-11	ELECT	1MF	20%	50V	
C052	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C055	1-126-941-11	ELECT	470MF	20%	16V	
C057	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C072	1-126-941-11	ELECT	470MF	20%	16V	
C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C101	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C102	1-136-169-00	FILM	0.22MF	5%	50V	
C105	1-104-665-11	ELECT	100MF	20%	16V	
C106	1-124-907-11	ELECT	10MF	20%	50V	
C107	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C108	1-126-942-61	ELECT	1000MF	20%	16V	
C109	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C114	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C115	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	
C116	1-136-165-00	FILM	0.1MF	5%	50V	
C117	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C118	1-124-916-11	ELECT	22MF	20%	50V	
C119	1-163-059-00	CERAMIC CHIP	0.01MF		50V	
C120	1-130-493-00	MYLAR	0.068MF	5%	50V	
C121	1-130-493-00	MYLAR	0.068MF	5%	50V	
C122	1-104-665-11	ELECT	100MF	20%	16V	
C124	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C125	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C234	1-104-664-11	ELECT	47MF	20%	16V	
C235	1-104-664-11	ELECT	47MF	20%	16V	
C236	1-126-968-11	ELECT	100MF	20%	35V	
C237	1-104-665-11	ELECT	100MF	20%	16V	
C238	1-136-167-00	FILM	0.15MF	5%	50V	
C241	1-124-557-11	ELECT	1000MF	20%	25V	
C242	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C243	1-126-233-11	ELECT	22MF	20%	25V	
C244	1-124-557-11	ELECT	1000MF	20%	25V	
C253	1-104-665-11	ELECT	100MF	20%	16V	
C258	1-136-169-00	FILM	0.22MF	5%	50V	
C300	1-104-664-11	ELECT	47MF	20%	16V	
C301	1-163-249-11	CERAMIC CHIP	82PF	5%	50V	
C302	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	
C303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C311	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C312	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C313	1-104-665-11	ELECT	100MF	20%	16V	
C314	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C315	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V	
C316	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C322	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C323	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C324	1-164-337-11	CERAMIC CHIP	2.2MF		16V	
C325	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	
C326	1-163-095-00	CERAMIC CHIP	12PF	5%	50V	
C327	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	
C329	1-163-016-00	CERAMIC CHIP	0.0039MF	10%	50V	

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1225	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
C1226	1-124-120-11	ELECT 220MF 20% 16V	
C1229	1-216-295-00	CONDUCTOR, CHIP (2012)	
C1513	1-124-122-11	ELECT 100MF 20% 50V	
		<CONNECTOR>	
CN101	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
CN103	*1-564-509-11	PLUG, CONNECTOR 6P	
CN104	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
CN106	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P (KV-G25M11)	
CN251	*1-564-507-11	PLUG, CONNECTOR 4P	
CN601	*1-580-843-11	PIN, CONNECTOR (POWER)	
CN602	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN603	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN851	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
		<TRIMMER>	
CT45	1-579-690-21	TRAP, CERAMIC	
CT55	1-404-801-11	TRAP, CERAMIC	
CT60	1-409-429-11	TRAP, CERAMIC	
CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
		<DIODE>	
D001	8-719-109-81	DIODE RD4.7ESB2	
D002	8-719-911-19	DIODE 1SS119-25	
D003	8-719-041-97	DIODE MA113-(TX)	
D004	8-719-109-84	DIODE RD5.1ESB1	
D005	8-719-109-84	DIODE RD5.1ESB1	
D101	8-719-041-97	DIODE MA113-(TX)	
D102	8-719-109-81	DIODE RD4.7ESB2	
D103	8-719-914-42	DIODE DA204K	
D251	8-719-911-19	DIODE 1SS119-25	
D252	8-719-914-42	DIODE DA204K	
D301	8-719-041-97	DIODE MA113-(TX)	
D302	8-719-041-97	DIODE MA113-(TX)	
D303	8-719-041-97	DIODE MA113-(TX)	
D304	8-719-041-97	DIODE MA113-(TX)	
D305	8-719-041-97	DIODE MA113-(TX)	
D306	8-719-911-19	DIODE 1SS119-25	
D307	8-719-911-19	DIODE 1SS119-25	
D308	8-719-109-54	DIODE RD2.2ESB2	
D310	8-719-041-97	DIODE MA113-(TX)	
D311	8-719-109-68	DIODE RD3.6ESB1	
D312	8-719-110-08	DIODE RD8.2ESB2	
D313	8-719-041-97	DIODE MA113-(TX)	
D314	8-719-041-97	DIODE MA113-(TX)	
D351	8-719-908-03	DIODE GP08D	
D401	8-719-421-40	DIODE MA77	
D402	8-719-911-19	DIODE 1SS119-25	
D403	8-719-911-19	DIODE 1SS119-25	
D513	8-719-109-84	DIODE RD5.1ESB1	
D551	8-719-908-03	DIODE GP08D	
D561	8-719-911-19	DIODE 1SS119-25	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D591	8-719-911-19	DIODE 1SS119-25	
D601	8-719-052-84	DIODE RBV-406H-02	
D602	8-719-108-18	THYRISTOR 5P4M	
D603	8-719-112-87	DIODE RD13ESTIB	
D604	8-719-110-36	DIODE RU4DS	
D605	8-719-052-52	DIODE 31DF2-FD5	
D606	8-719-052-52	DIODE 31DF2-FD5	
D607	8-719-510-26	DIODE D1NL20	
D609	8-719-510-26	DIODE D1NL20	
D610	8-719-510-26	DIODE D1NL20	
D611	8-719-510-26	DIODE D1NL20	
D801	8-719-945-80	DIODE ERC06-15S	
D802	8-719-900-26	DIODE ERD29-08J	
D851	8-719-302-43	DIODE EL1Z	
D852	8-719-028-72	DIODE RGP02-17EL-6433	
D853	8-719-302-43	DIODE EL1Z	
D855	8-719-302-43	DIODE EL1Z	
D857	8-719-908-03	DIODE GP08D	
D858	8-719-908-03	DIODE GP08D	
D860	8-719-911-19	DIODE 1SS119-25	
D891	8-719-945-80	DIODE ERC06-15S	
D901	8-719-054-60	DIODE LN0220022G	
D1201	8-719-121-24	DIODE RD9.1ESL	
D1202	8-719-121-24	DIODE RD9.1ESL	
D1207	8-719-121-24	DIODE RD9.1ESL	
D1208	8-719-121-24	DIODE RD9.1ESL	
D1504	8-719-911-19	DIODE 1SS119-25	
D1505	8-719-109-84	DIODE RD5.1ESB1	
		<FUSE>	
F601	⚠1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V (KV-G25M1(ME)/(HK), KV-G25M11)	
		<FERRITE BEAD>	
FB101	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB102	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB251	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB603	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB611	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB801	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH (KV-G25M1(ME)/(HK), KV-G25M11)	
FB801	1-420-872-00	COIL, AIR CORE (KV-G25M1(RUSS))	
		<IC>	
IC001	8-752-866-21	IC CXP85116B-615S	
IC002	8-759-805-37	IC L78LR05D-MA	
IC003	8-759-093-95	IC CAT24C04P	
IC004	8-741-790-11	ELEMENT, RAY-CATCHER SBX1790-11	
IC102	8-759-157-40	IC UPC574J	
IC203	8-759-336-30	IC TA8223K	
IC300	8-759-339-50	IC TDA8366N3D	
IC351	8-759-293-27	IC TDA4665	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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.NO.	PART NO.	DESCRIPTION				REMARK
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C332	1-136-165-00	FILM	0.1MF	5%	50V	
C333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C335	1-102-973-00	CERAMIC	100PF	5%	50V	
C337	1-124-916-11	ELECT	22MF	20%	50V	
C338	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V	
C339	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C340	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C344	1-124-907-11	ELECT	10MF	20%	50V	
C350	1-104-664-11	ELECT	47MF	20%	16V	
C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C352	1-164-222-11	CERAMIC CHIP	0.22MF		25V	
C358	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C359	1-104-665-11	ELECT	100MF	20%	16V	
367	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C368	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C370	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C374	1-124-910-11	ELECT	47MF	20%	50V	
C375	1-124-910-11	ELECT	47MF	20%	50V	
C402	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C403	1-124-916-11	ELECT	22MF	20%	50V	
C405	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C406	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
407	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C408	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C409	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C410	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C411	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C412	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C413	1-104-665-11	ELECT	100MF	20%	16V	
C414	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C415	1-163-017-00	CERAMIC CHIP	0.0047MF	10V	50V	
C416	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
417	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C418	1-216-295-00	CONDUCTOR, CHIP (2012)				
C419	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C420	1-104-664-11	ELECT	47MF	20%	16V	
C422	1-216-295-00	CONDUCTOR, CHIP (2012)				
C423	1-216-295-00	CONDUCTOR, CHIP	(2012)			
C424	1-216-295-00	CONDUCTOR, CHIP	(2012)			
C425	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C501	1-102-228-00	CERAMIC	470PF	10%	500V	
C523	1-104-665-11	ELECT	100MF	20%	16V	
C548	1-106-220-00	MYLAR	0.1MF	10%	100V	
C551	1-126-968-11	ELECT	100MF	20%	35V	
C552	1-126-968-11	ELECT	100MF	20%	35V	
C553	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V	
C554	1-102-244-00	CERAMIC	220PF	10%	500V	
C555	1-101-804-00	CERAMIC	10PF	5%	500V	
C562	1-104-665-11	ELECT	100MF	20%	16V	
601	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C602	1-161-830-00	CERAMIC	0.0047MF	99%	500V	
C604	1-125-483-11	ELECT(BLOCK)	470MF	20%	400V	
C608	1-104-332-11	CERAMIC	470PF	10%	2KV	
C609	1-126-600-11	ELECT	100MF	20%	160V	
C610	1-126-942-61	ELECT	1000MF	20%	16V	
C612	1-102-228-00	CERAMIC	470PF	10%	500V	
C613	1-102-824-00	CERAMIC	470PF	5%	50V	
C614	1-124-557-11	ELECT	1000MF	20%	25V	
C615	⚠1-164-497-51	CERAMIC	470PF	10%	400V	
C616	1-102-228-00	CERAMIC	470PF	10%	500V	
C620	1-136-619-11	FILM	0.0016MF	3%	2KV	
C621	⚠1-136-548-13	FILM	0.1MF	20%	250V	
C622	1-106-383-00	MYLAR	0.047MF	10%	200V	
C623	1-124-120-11	ELECT	220MF	20%	16V	
C624	1-126-942-61	ELECT	1000MF	20%	16V	
C625	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C630	⚠1-164-497-51	CERAMIC	470PF	10%	400V	
C631	1-161-830-00	CERAMIC	0.0047MF	99%	500V	
C801	1-123-024-21	ELECT	33MF		160V	
C802	1-106-367-00	MYLAR	0.01MF	10%	200V	
C804	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C805	1-102-244-00	CERAMIC	220PF	10%	500V	
C806	1-124-903-11	ELECT	1MF	20%	50V	
C807	1-136-540-11	FILM	0.82MF	5%	200V	
C808	1-130-959-00	FILM	0.047MF	10%	400V	
C809	1-162-115-00	CERAMIC	330PF	10%	2KV	
C810	1-106-365-00	MYLAR	0.0082MF	99%	200V	
C811	1-162-318-11	CERAMIC	0.001M	10%	500V	
C812	1-136-617-11	FILM	0.019M	3%	2KV	
C816	1-123-947-00	ELECT	10MF	20%	160V	
C820	1-162-135-11	CERAMIC	560PF	10%	2KV	
C821	1-106-391-12	MYLAR	0.1MF	10%	200V	
C822	1-136-541-11	FILM	1.5MF	5%	200V	
C823	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C825	1-106-367-00	MYLAR	0.01MF	10%	200V	
C850	1-124-480-11	ELECT	470MF	20%	25V	
C852	1-104-574-11	CERAMIC	0.0047MF	10	2KV	
C853	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C854	1-124-480-11	ELECT	470MF	20%	25V	
C856	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C857	1-130-493-00	MYLAR	0.068MF	5%	50V	
C860	1-102-228-00	CERAMIC	470PF	10%	500V	
C861	1-107-654-11	ELECT	33MF	20%	250V	
C875	1-124-910-11	ELECT	47MF	20%	50V	
C876	1-108-702-11	MYLAR	0.068MF	10%	100V	
C891	1-163-007-11	CERAMIC CHIP	680PF	10%	50V	
C898	1-106-379-12	MYLAR	0.033MF	10%	100V	
C901	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C902	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C1201	1-104-665-11	ELECT	100MF	20%	16V	
C1202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1204	1-104-665-11	ELECT	100MF	20%	16V	
C1205	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1210	1-104-665-11	ELECT	100MF	20%	16V	
C1213	1-124-903-11	ELECT	1MF	20%	50V	
C1214	1-124-907-11	ELECT	10MF	20%	50V	
C1217	1-104-665-11	ELECT	100MF	20%	16V	
C1218	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
C1221	1-164-005-11	CERAMIC CHIP	0.47MF		25V	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R021	1-216-065-00	METAL GLAZE 4.7K 5 1/10W	
R027	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R028	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R029	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R030	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R031	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R033	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R035	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R036	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R038	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R040	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R041	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R042	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R043	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R044	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R046	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R047	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R048	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R049	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R050	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R051	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R052	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R054	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R057	1-216-049-00	METAL GLAZE 1K 5 1/10W	
R059	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R067	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R068	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R071	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R076	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R077	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R090	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R101	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R102	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R103	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R113	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R114	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R115	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R116	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R117	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R118	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R119	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R120	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
R131	1-216-464-11	METAL OXIDE 18K 5% 2W	F
R180	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R181	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R182	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R242	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R243	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R244	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R245	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R250	1-216-295-00	CONDUCTOR, CHIP (2012)	
R251	1-216-295-00	CONDUCTOR, CHIP (2012)	
R252	1-249-411-11	CARBON 330 5% 1/4W	
R253	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R254	1-249-389-11	CARBON 4.7 5% 1/4W	
R265	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R266	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R301	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R302	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R303	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R304	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R305	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R306	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R307	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R308	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R309	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R310	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R311	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R312	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R313	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R314	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R315	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R316	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W (KV-G25M11)	
R317	1-216-049-00	METAL GLAZE 1K 5% 1/10W (KV-G25M11)	
R318	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
R319	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
R320	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R321	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R322	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R324	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R327	1-216-025-00	METAL GLAZE 100 5% 1/10W (KV-G25M11)	
R327	1-216-295-00	CONDUCTOR, CHIP (2012) (KV-G25M1)	
R328	1-216-025-00	METAL GLAZE 100 5% 1/10W (KV-G25M11)	
R328	1-216-295-00	CONDUCTOR, CHIP (2012) (KV-G25M1)	
R329	1-216-025-00	METAL GLAZE 100 5% 1/10W (KV-G25M11)	
R329	1-216-295-00	CONDUCTOR, CHIP (2012) (KV-G25M1)	
R330	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R332	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R334	1-216-041-00	METAL GLAZE 470 5% 1/10W (KV-G25M11)	
R335	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R336	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R338	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R339	1-216-036-00	METAL GLAZE 300 5% 1/10W	
R340	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R341	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R351	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R355	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R356	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R403	1-216-021-00	METAL GLAZE 68 5% 1/10W	
R406	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R407	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R408	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R409	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R410	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R411	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R412	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R413	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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EF. NO.	PART NO.	DESCRIPTION	REMARK
IC354	8-759-251-56	IC TDA8395T	
IC401	8-759-800-65	IC LA7910	
IC521	8-759-195-63	IC PQ09RE11	
IC551	8-759-801-98	IC LA7830	
IC601	8-749-010-84	IC STR-S6708	
IC602	8-749-920-61	IC SE-135N	
IC603	⚠ 8-749-010-64	PHOTO COUPLER PC123F2	
IC801	8-759-100-96	IC UPC4558G2	
IC1210	8-759-100-96	IC UPC4558G2	
		<JACK>	
J251	1-770-785-11	JACK	
J1201	1-770-660-11	JACK BLOCK, PIN 4P	
J1202	1-695-238-11	JACK BLOCK, PIN 2P	
		<CHIP CONDUCTOR>	
JR102	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR103	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M11)
JR104	1-216-295-00	CONDUCTOR, CHIP (2012)	
		<COIL>	
L002	1-410-470-11	INDUCTOR 10UH	
L003	1-408-411-00	INDUCTOR 15UH	
L101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
L301	1-408-609-41	INDUCTOR 33UH	
L401	1-410-498-11	INDUCTOR 1.2UH.	
L402	1-410-510-11	INDUCTOR 12UH	
L403	1-410-510-11	INDUCTOR 12UH	
L404	1-410-508-11	INDUCTOR 8.2UH	
L405	1-410-508-11	INDUCTOR 8.2UH	
L406	1-410-507-11	INDUCTOR 6.8UH	
L407	1-410-511-11	INDUCTOR 15UH	
L408	1-535-303-00	LEAD, JUMPER (5.0MM)	
L409	1-535-303-00	LEAD, JUMPER (5.0MM)	
L410	1-535-303-00	LEAD, JUMPER (5.0MM)	
L411	1-535-303-00	LEAD, JUMPER (5.0MM)	
L802	1-412-527-11	INDUCTOR 15UH	
L804	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE	
L805	1-459-907-11	COIL, HORIZONTAL LINEARITY	
L807	1-459-390-00	COIL (WITH CORE)	
L808	1-412-553-11	INDUCTOR 3.3MMH	
L821	1-459-111-00	COIL, DRAM CORE (CDI)	
L850	1-408-947-00	INDUCTOR 2.2MMH	
		<TRANSISTOR>	
Q030	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q031	8-729-216-22	TRANSISTOR 2SA1162-G	
Q108	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
)109	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-216-22	TRANSISTOR 2SA1162-G	
Q207	8-729-216-22	TRANSISTOR 2SA1162-G	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q208	8-729-901-01	TRANSISTOR DTC144EK	
Q210	8-729-900-98	TRANSISTOR DTC143TK	
Q301	8-729-900-53	TRANSISTOR DTC114EK	
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	(KV-G25M11)
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q402	8-729-922-66	TRANSISTOR 2SC2410SN	
Q403	8-729-900-98	TRANSISTOR DTC143TK	
Q404	8-729-900-98	TRANSISTOR DTC143TK	
Q405	8-729-216-22	TRANSISTOR 2SA1162-G	
Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
Q407	8-729-216-22	TRANSISTOR 2SA1162-G	
Q408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q409	8-729-216-22	TRANSISTOR 2SA1162-G	
Q410	8-729-216-22	TRANSISTOR 2SA1162-G	
Q411	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q412	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q413	8-729-900-98	TRANSISTOR DTC143TK	
Q414	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q415	8-729-900-98	TRANSISTOR DTC143TK	
Q416	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q417	8-729-900-98	TRANSISTOR DTC143TK	
Q418	8-729-900-98	TRANSISTOR DTC143TK	
Q561	8-729-200-17	TRANSISTOR 2SA1091-O	
Q601	8-729-120-28	TRANSISTOR 2SC2412K	
Q801	8-729-140-96	TRANSISTOR 2SD774-34	
Q802	8-729-016-32	TRANSISTOR 2SC4927-01	
Q821	8-729-018-99	TRANSISTOR 2SD2394-F	
Q902	8-729-901-01	TRANSISTOR DTC144EK	
Q903	8-729-901-01	TRANSISTOR DTC144EK	
Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1204	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1208	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1265	8-729-900-98	TRANSISTOR DTC143TK	
Q1513	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<RESISTOR>	
R001	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R002	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R003	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R004	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R007	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R008	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R009	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R010	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R012	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R013	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R014	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R015	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R018	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R019	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R020	1-216-025-00	METAL GLAZE 100 5% 1/10W	(KV-G25M11)

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION				REMARK
R910	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R911	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R913	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R914	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R915	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R1201	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1202	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1203	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1205	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1206	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1211	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R1212	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1215	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1216	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1218	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1219	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1220	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1221	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1227	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1228	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1229	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1230	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1231	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1232	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R1233	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1235	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1239	1-249-389-11	CARBON	4.7	5%	1/4W	F
R1240	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1241	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1243	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1245	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1246	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1247	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1248	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R1249	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1513	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1514	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1515	1-216-025-00	METAL GLAZE	100	5%	1/10W	

<SWITCH>

REF. NO.	PART NO.	DESCRIPTION	REMARK
S601	⚠1-762-087-11	SWITCH, PUSH (AC POWER)	
S801	1-572-707-11	SWITCH, LEVER	
S901	1-570-577-11	SWITCH, PUSH	
S902	1-570-577-11	SWITCH, PUSH	
S903	1-570-577-11	SWITCH, PUSH	
S904	1-570-577-11	SWITCH, PUSH	
S905	1-570-577-11	SWITCH, PUSH	

<SPARK GAP>

REF. NO.	PART NO.	DESCRIPTION	REMARK
SG801	1-519-422-11	GAP, SPARK	

<FILTER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
SWF401	1-760-771-11	FILTER, SURFACE WAVE	

<TRANSFORMER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
T601	⚠1-429-139-11	TRANSFORMER, CONVERTER (SRT)	
T605	⚠1-424-461-11	TRANSFORMER, LINE FILTER	
T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T851	⚠1-453-190-11	TRANSFORMER ASSY, FLYBACK (NX-2743//M3B)	

<THERMISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
THP601	⚠1-810-961-11	THERMISTOR, POSITIVE	

<TUNER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
TU101	⚠8-598-323-00	TUNER BT-AG401	

<CRYSTAL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
X101	1-577-082-11	VIBRATOR, CERAMIC	
X300	1-404-835-31	COIL, IF	
X358	1-567-505-11	OSCILLATOR, CRYSTAL	
X443	1-567-504-11	OSCILLATOR, CRYSTAL	

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*A-1331-428-A C BOARD, COMPLETE

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<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION				REMARK
C701	1-162-114-00	CERAMIC	0.0047MF	2KV		
C702	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C704	1-130-202-00	FILM	0.022MF	5%	400V	
C708	1-102-114-00	CERAMIC	470PF	10%	50V	
C709	1-102-114-00	CERAMIC	470PF	10%	50V	
C710	1-102-114-00	CERAMIC	470PF	10%	50V	
C712	1-101-361-00	CERAMIC	150PF	5%	50V	
C713	1-102-971-00	CERAMIC	82PF	5%	50V	
C714	1-101-361-00	CERAMIC	150PF	5%	50V	
C716	1-124-122-11	ELECT	100MF	20%	50V	

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN701	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
CN703	*1-564-509-11	PLUG, CONNECTOR 6P	
CN704	1-695-915-11	TAB (CONTACT)	

<DIODE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
D701	8-719-911-19	DIODE 1SS119-25	
D702	8-719-911-19	DIODE 1SS119-25	
D703	8-719-911-19	DIODE 1SS119-25	
D704	8-719-911-19	DIODE 1SS119-25	
D705	8-719-911-19	DIODE 1SS119-25	
D706	8-719-911-19	DIODE 1SS119-25	
D707	8-719-911-19	DIODE 1SS119-25	
D708	8-719-911-19	DIODE 1SS119-25	
D709	8-719-911-19	DIODE 1SS119-25	
D710	8-719-911-19	DIODE 1SS119-25	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION				REMARK
R414	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R415	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R416	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R417	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R418	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R419	1-216-049-00	METAL GLAZE	1K	5	1/10W	
R420	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R421	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R422	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R423	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R424	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R425	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R426	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R427	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R428	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R429	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R430	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R431	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R432	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R433	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R434	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R435	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R436	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R437	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R440	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R441	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R521	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R552	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)				
R553	1-216-295-00	CONDUCTOR, CHIP (2012)				
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)				
R555	1-249-429-11	CARBON	10K	5%	1/4W	
R556	1-216-049-00	METAL GLAZE	1K	5	1/10W	
R557	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R560	1-216-295-00	CONDUCTOR, CHIP (2012)				
R561	1-249-421-11	CARBON	2.2K	5%	1/4W	
R562	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R563	1-247-885-00	CARBON	180K	5%	1/4W	
R564	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R565	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R566	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R569	1-247-883-00	CARBON	150K	5%	1/4W	
R570	1-216-295-00	CONDUCTOR, CHIP (2012)				
		(KV-G25M1(RUSS)/(HK), KV-G25M11)				
R603	1-249-416-11	CARBON	820	5%	1/4W	F
R604	1-249-416-11	CARBON	820	5%	1/4W	F
R606	1-215-915-11	METAL OXIDE	470	5%	3W	F
R608	1-535-303-00	LEAD, JUMPER	(5.0MM)			
R609	1-249-381-11	CARBON	1	5%	1/4W	
R610	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R611	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R612	1-249-377-11	CARBON	0.47	5%	1/4W	F
R613	1-249-377-11	CARBON	0.47	5%	1/4W	F
R614	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R615	1-249-389-11	CARBON	4.7	5%	1/4W	
R616	⚠1-218-265-91	METAL	8.2M	5%	1W	

REF. NO.	PART NO.	DESCRIPTION				REMARK
R617	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R619	1-249-377-11	CARBON	0.47	5%	1/4W	F
R621	1-211-748-11	FUSIBLE	5.6	5%	5W	F
R622	1-217-190-21	WIREWOUND	0.15	10%	2W	F
R623	1-247-807-31	CARBON	100	5%	1/4W	
R624	1-215-881-11	METAL OXIDE	15	5%	2W	F
R625	1-249-424-11	CARBON	3.9K	5%	1/4W	
R626	1-249-420-11	CARBON	1.8K	5%	1/4W	
R627	1-249-417-11	CARBON	1K	5%	1/4W	
R628	1-249-417-11	CARBON	1K	5%	1/4W	
R629	1-249-401-11	CARBON	47	5%	1/4W	
R635	1-215-882-00	METAL OXIDE	22	5%	2W	F
				(KV-G25M11)		
R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R801	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F
R802	1-249-387-11	CARBON	3.3	5%	1/4W	F
R804	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R805	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R808	1-535-303-00	LEAD, JUMPER	(5.0MM)			
R809	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R811	1-216-346-00	METAL OXIDE	0.56	5%	1W	F
R812	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R816	1-249-430-11	CARBON	12K	5%	1/4W	
R820	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R821	1-215-910-00	METAL OXIDE	68	5%	3W	F
R822	1-216-429-00	METAL OXIDE	270	5%	1W	F
R823	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R825	1-249-392-11	CARBON	8.2	5%	1/4W	F
R826	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R827	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R828	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R829	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R831	1-216-426-11	METAL OXIDE	82	5%	1W	F
R832	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R834	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R851	1-249-382-11	CARBON	1.2	5%	1/4W	F
R852	1-249-923-11	CARBON	1K	5%	1/4W	F
R853	1-249-377-11	CARBON	0.47	5%	1/4W	F
R854	1-249-377-11	CARBON	0.47	5%	1/4W	F
R855	1-202-818-00	SOLID	1K	20%	1/2W	
R856	1-249-425-11	CARBON	4.7K	5%	1/4W	
R857	1-249-438-11	CARBON	56K	5%	1/4W	
R858	1-216-370-11	METAL OXIDE	1.2	5%	2W	FZ
R860	1-247-887-00	CARBON	220K	5%	1/4W	
R881	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R882	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R883	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R895	1-216-348-00	METAL OXIDE	0.82	5%	1W	F
R898	1-249-421-11	CARBON	2.2K	5%	1/4W	
R902	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R904	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R905	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R906	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R907	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R908	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R909	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	

F1 **V1**

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSFORMER>	
T1601	⚠1-424-436-11	TRANSFORMER, LINE FILTER	
T1602	⚠1-424-436-11	TRANSFORMER, LINE FILTER	

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*A-1347-103-A V1 BOARD, COMPLETE (KV-G25M11)
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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CAPACITOR>	
C01	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V	
C02	1-124-907-11	ELECT 10MF 20% 50V	
C03	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V	
C04	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C05	1-124-907-11	ELECT 10MF 20% 50V	
C06	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V	
C07	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C08	1-163-097-00	CERAMIC CHIP 15PF 5% 50	
C09	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C10	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C11	1-164-346-11	CERAMIC CHIP 1MF 16V	
C12	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C13	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C14	1-216-295-00	CONDUCTOR, CHIP (2012)	
C15	1-124-482-11	ELECT 33MF 20% 35V	
C16	1-126-963-11	ELECT 4.7MF 20% 50V	
C17	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C19	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C22	1-124-907-11	ELECT 10MF 20% 50V	
C23	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C25	1-124-907-11	ELECT 10MF 20% 50V	
C26	1-124-119-00	ELECT 330MF 20% 16V	
C27	1-104-665-11	ELECT 100MF 20% 16V	
C28	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C29	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C30	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C31	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
		<CONNECTOR>	
CN01	*1-770-748-11	CONNECTOR, BOARD TO BOARD 12P	
		<DIODE>	
D001	8-719-105-51	DIODE RD3.6M-B1	
D03	8-719-914-43	DIODE DAN202K	
D04	8-719-105-91	DIODE RD5.6M-B2	
D05	8-719-914-44	DIODE DAP202K	
D06	8-719-914-43	DIODE DAN202K	
		<FERRITE BEAD>	
FB01	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC01	8-759-324-28	IC P83C654	
IC02	8-759-298-63	IC SAA5281ZP/E	
		<CHIP CONDUCTOR>	
JR02	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR03	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR04	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR07	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR08	1-216-295-00	CONDUCTOR, CHIP (2012)	
		<COIL>	
L01	1-410-464-11	INDUCTOR 3.3UH	
L03	1-410-464-11	INDUCTOR 3.3UH	
L04	1-410-464-11	INDUCTOR 3.3UH	
L05	1-410-464-11	INDUCTOR 3.3UH	
L06	1-410-464-11	INDUCTOR 3.3UH	
		<TRANSISTOR>	
Q01	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q02	8-729-900-53	TRANSISTOR DTC114EK	
Q03	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q04	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q05	8-729-216-22	TRANSISTOR 2SA1162-G	
Q06	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q07	8-729-019-01	TRANSISTOR 2SD2394-EF	
Q08	8-729-140-96	TRANSISTOR 2SD774-34	
Q09	8-729-901-04	TRANSISTOR DTA114EK	
		<RESISTOR>	
R01	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R02	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R03	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R04	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R05	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R06	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R07	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R08	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R09	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R10	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R11	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R12	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R13	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R16	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R17	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R18	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R20	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R21	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R22	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R24	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R25	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R26	1-216-049-00	METAL GLAZE 1K 5% 1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

F. NO.	PART NO.	DESCRIPTION				REMARK
D711	8-719-911-19	DIODE 1SS119-25				
D712	8-719-911-19	DIODE 1SS119-25				
D716	8-719-911-19	DIODE 1SS119-25				
D717	8-719-121-24	DIODE RD9.1ESL				
		<JACK>				
J701	⚠1-251-239-21	SOCKET, CRT				
		<COIL>				
L701	1-410-667-31	INDUCTOR	22UH			
L702	1-535-303-00	LEAD, JUMPER (5.0MM)				
L703	1-408-609-41	INDUCTOR	33UH			
L704	1-535-303-00	LEAD, JUMPER (5.0MM)				
L705	1-408-609-41	INDUCTOR	33UH			
L706	1-535-303-00	LEAD, JUMPER (5.0MM)				
L707	1-408-609-41	INDUCTOR	33UH			
		<TRANSISTOR>				
Q701	8-729-326-11	TRANSISTOR 2SC2611				
Q702	8-729-326-11	TRANSISTOR 2SC2611				
Q703	8-729-326-11	TRANSISTOR 2SC2611				
Q704	8-729-326-11	TRANSISTOR 2SC2611				
Q705	8-729-326-11	TRANSISTOR 2SC2611				
Q706	8-729-326-11	TRANSISTOR 2SC2611				
Q707	8-729-200-17	TRANSISTOR 2SA1091-O				
Q708	8-729-200-17	TRANSISTOR 2SA1091-O				
Q709	8-729-200-17	TRANSISTOR 2SA1091-O				
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q711	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q712	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q714	8-729-255-12	TRANSISTOR 2SC2551-O				
		<RESISTOR>				
R701	1-244-941-00	CARBON	680K	5%	1/2W	
R702	1-249-496-11	CARBON	100K	5%	1/2W	
R703	1-249-496-11	CARBON	100K	5%	1/2W	
R705	1-216-392-11	METAL OXIDE	1.8	5%	3W	F
R710	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R711	1-247-758-11	CARBON	3.3K	5%	1/2W	
R712	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R713	1-247-758-11	CARBON	3.3K	5%	1/2W	
R714	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R715	1-247-758-11	CARBON	3.3K	5%	1/2W	
R716	1-249-899-11	CARBON	100	5%	1/4W	F
R717	1-249-405-11	CARBON	100	5%	1/4W	F
R718	1-249-899-11	CARBON	100	5%	1/4W	F
R719	1-215-487-00	METAL	560K	1%	1/4W	
R720	1-249-417-11	CARBON	1K	5%	1/4W	F
721	1-215-491-00	METAL	820K	1%	1/4W	
722	1-249-923-11	CARBON	1K	5%	1/4W	F
R723	1-215-489-00	METAL	680K	1%	1/4W	
R724	1-249-417-11	CARBON	1K	5%	1/4W	F
R725	1-249-422-11	CARBON	2.7K	5%	1/4W	

REF. NO.	PART NO.	DESCRIPTION				REMARK
R726	1-249-422-11	CARBON	2.7K	5%	1/4W	
R727	1-249-422-11	CARBON	2.7K	5%	1/4W	
R728	1-215-410-00	METAL	360	1%	1/4W	
R729	1-215-410-00	METAL	360	1%	1/4W	
R730	1-215-410-00	METAL	360	1%	1/4W	
R731	1-535-303-00	LEAD, JUMPER (5.0MM)				
R732	1-535-303-00	LEAD, JUMPER (5.0MM)				
R733	1-535-303-00	LEAD, JUMPER (5.0MM)				
R734	1-247-739-11	CARBON	100	5%	1/2W	
R738	1-247-807-31	CARBON	100	5%	1/4W	
R739	1-247-807-31	CARBON	100	5%	1/4W	
R740	1-247-807-31	CARBON	100	5%	1/4W	
R747	1-216-489-11	METAL OXIDE	27K	5%	3W	F
R749	1-216-490-11	METAL OXIDE	39K	5%	3W	F
R751	1-215-926-00	METAL OXIDE	33K	5%	3W	F
R753	1-249-429-11	CARBON	10K	5%	1/4W	
R755	1-249-427-11	CARBON	6.8K	5%	1/4W	
R756	1-249-427-11	CARBON	6.8K	5%	1/4W	
R757	1-249-427-11	CARBON	6.8K	5%	1/4W	
R758	1-249-419-11	CARBON	1.5K	5%	1/4W	
R759	1-249-419-11	CARBON	1.5K	5%	1/4W	
R760	1-249-419-11	CARBON	1.5K	5%	1/4W	F
		<VARIABLE RESISTOR>				
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				

****

*A-1241-190-A F1 BOARD, COMPLETE (KV-G25M1(RUSS)
****

	1-533-223-11	CLIP, FUSE				
		<CAPACITOR>				
C1601	⚠1-104-706-51	FILM	0.22MF	20%	250V	
		<CONNECTOR>				
CN1601	*1-580-843-11	PIN, CONNECTOR (POWER)				
CN1602	*1-580-843-11	PIN, CONNECTOR (POWER)				
		<FUSE>				
F1601	⚠1-532-465-31	FUSE, TIME-LAG (BET) 3.15A/250V				
		<RESISTOR>				
R1601	⚠1-202-916-91	SOLID	5.6M	20%	1/2W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

V1

REF. NO.	PART NO.	DESCRIPTION				REMARK
R27	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R28	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R29	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R30	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R31	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R32	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R33	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R34	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R35	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R36	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R37	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R38	1-260-085-11	CARBON	68	5%	1/2W	
R41	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R43	1-216-295-00	CONDUCTOR, CHIP (2012)				
R44	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R45	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R46	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R47	1-216-021-00	METAL GLAZE	68	5%	1/10W	

<CRYSTAL>

REF. NO.	PART NO.	DESCRIPTION
X01	1-579-266-31	CRYSTAL VIBRATOR

****

MISCELLANEOUS
****

PART NO.	DESCRIPTION
1-544-453-21	SPEAKER (2CM)
1-504-305-11	SPEAKER (5X12CM)
⚠8-733-234-05	PICTURE TUBE (M60KWL10X)
⚠8-451-404-11	DEFLECTION YOKE (Y25GXAS)
⚠1-403-619-11	COIL, DEMAGNETIZATION
⚠1-574-062-22	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-G25M1(ME)/M1(RUSS)/M11)
⚠1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-G25M1(HK))

****

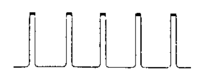
ACCESSORIES AND PACKING MATERIALS
****

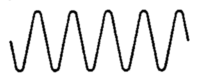
PART NO.	DESCRIPTION
3-800-141-21	MANUAL, INSTRUCTION (KV-G25M1(ME)
3-800-141-41	MANUAL, INSTRUCTION (KV-G25M1(HK)/M11)
3-800-141-51	MANUAL, INSTRUCTION (KV-G25M1(RUSS))
*4-029-168-01	BAG, PROTECTION (KV-G25M11)
*4-039-372-01	BAG, PROTECTION (KV-G25M1)
3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)
4-392-003-11	BAND, HOLD
4-392-004-11	CLIP
⚠1-569-008-11	ADAPTER, CONVERSION 2P (KV-G25M1(ME)/M1(RUSS))
*4-047-806-01	CUSHION (UPPER) (ASSY) (KV-G25M1)
*4-047-807-01	CUSHION (LOWER) (ASSY) (KV-G25M1)
*4-047-808-01	INDIVIDUAL CARTON (KV-G25M1)

REMOTE COMMANDER
****

REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-473-323-11	REMOTE COMMANDER (RM-870)	

A BOARD WAVEFORMS

①

5.0Vp-p (H)

②

4.0Vp-p

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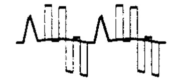
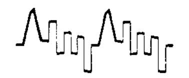
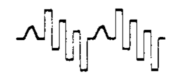

0.7Vp-p (H)

③ NTSC

0.6Vp-p (H)

③ SECAM

1.6Vp-p (H)

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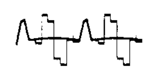
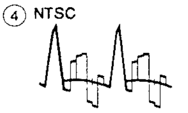
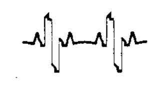
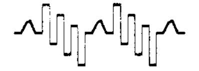
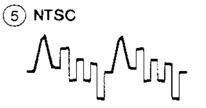

0.6Vp-p (H)

④ NTSC

0.4Vp-p (H)

④ SECAM

1.2Vp-p (H)

⑤ PAL/SECAM

PAL : 1.3Vp-p (H)
SECAM : 1.5Vp-p (H)

⑤ NTSC

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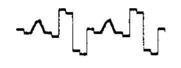
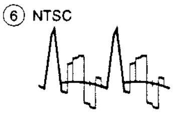
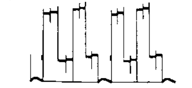
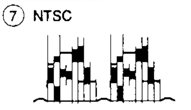
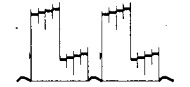
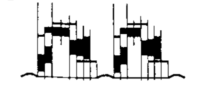
⑥ PAL/SECAM

PAL : 1.0Vp-p (H)
SECAM : 1.2Vp-p (H)

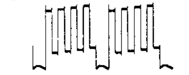
⑥ NTSC

0.6Vp-p (H)

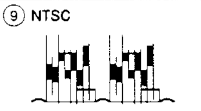
⑦ PAL/SECAM

3.6Vp-p (H)

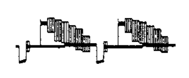
⑦ NTSC

4.0Vp-p (H)

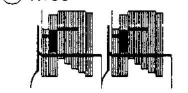
⑧ PAL/SECAM

3.3Vp-p (H)

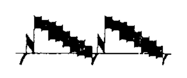
⑧ NTSC

4.0Vp-p (H)

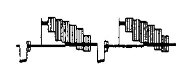
⑨ PAL/SECAM

PAL : 3.4Vp-p (H)
SECAM : 3.0Vp-p (H)

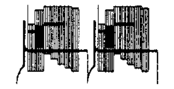
⑨ NTSC

4.0Vp-p (H)

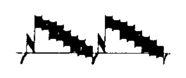
⑩ PAL

2.2Vp-p (H)

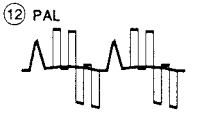
⑩ NTSC

3.0Vp-p (H)

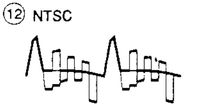
⑩ SECAM

2.2Vp-p (H)

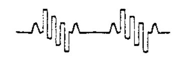
⑪ PAL

1.0Vp-p (H)

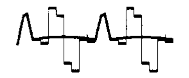
⑪ NTSC

1.3Vp-p (H)

⑪ SECAM

1.0Vp-p (H)

⑫ PAL

0.7Vp-p (H)

⑫ NTSC

0.6Vp-p (H)

⑫ SECAM

1.5Vp-p (H)

⑬ PAL

0.6Vp-p (H)

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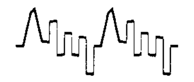
0.5Vp-p (H)

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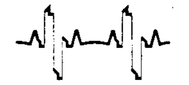
1.2Vp-p (H)

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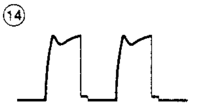
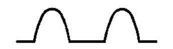
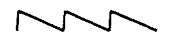
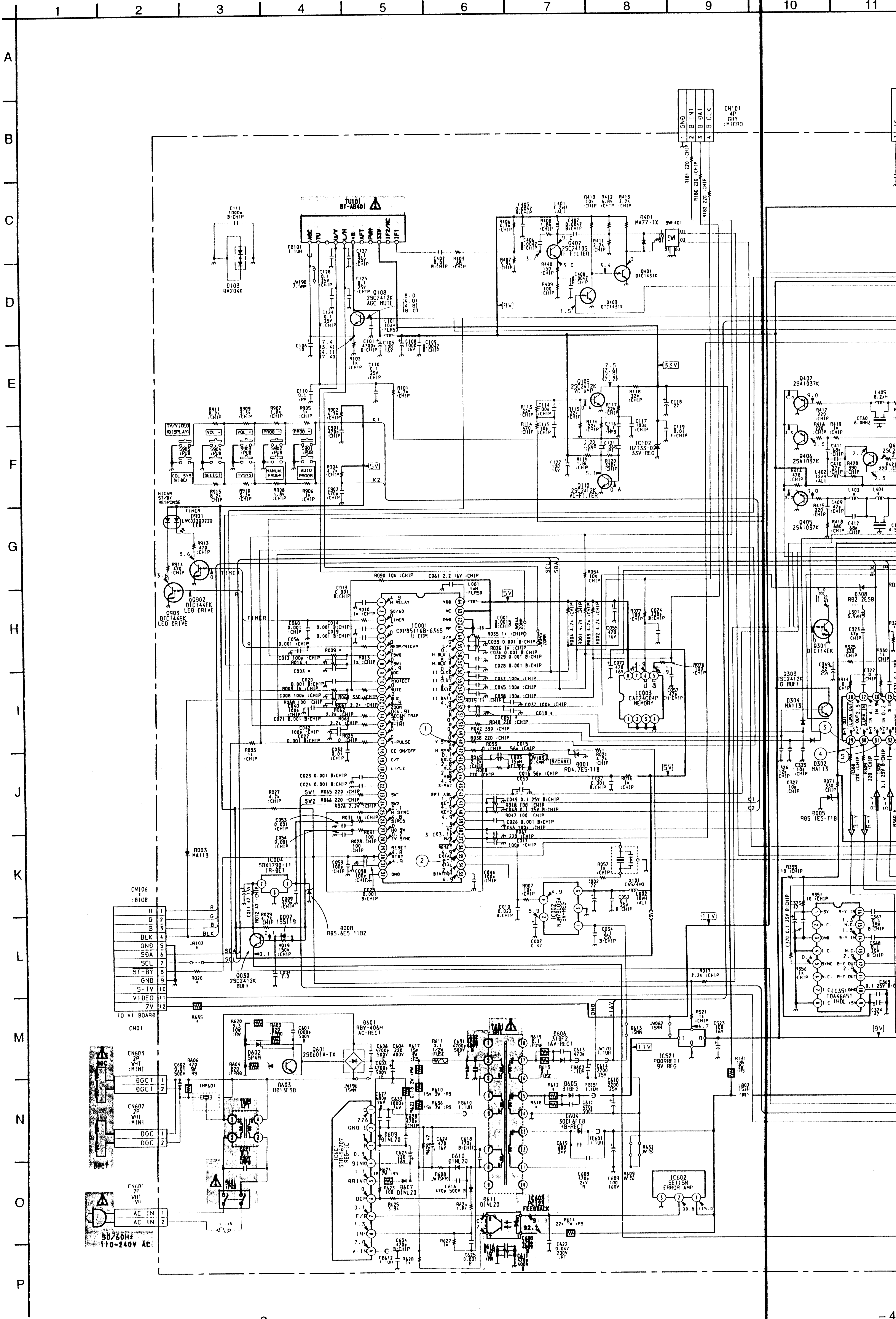
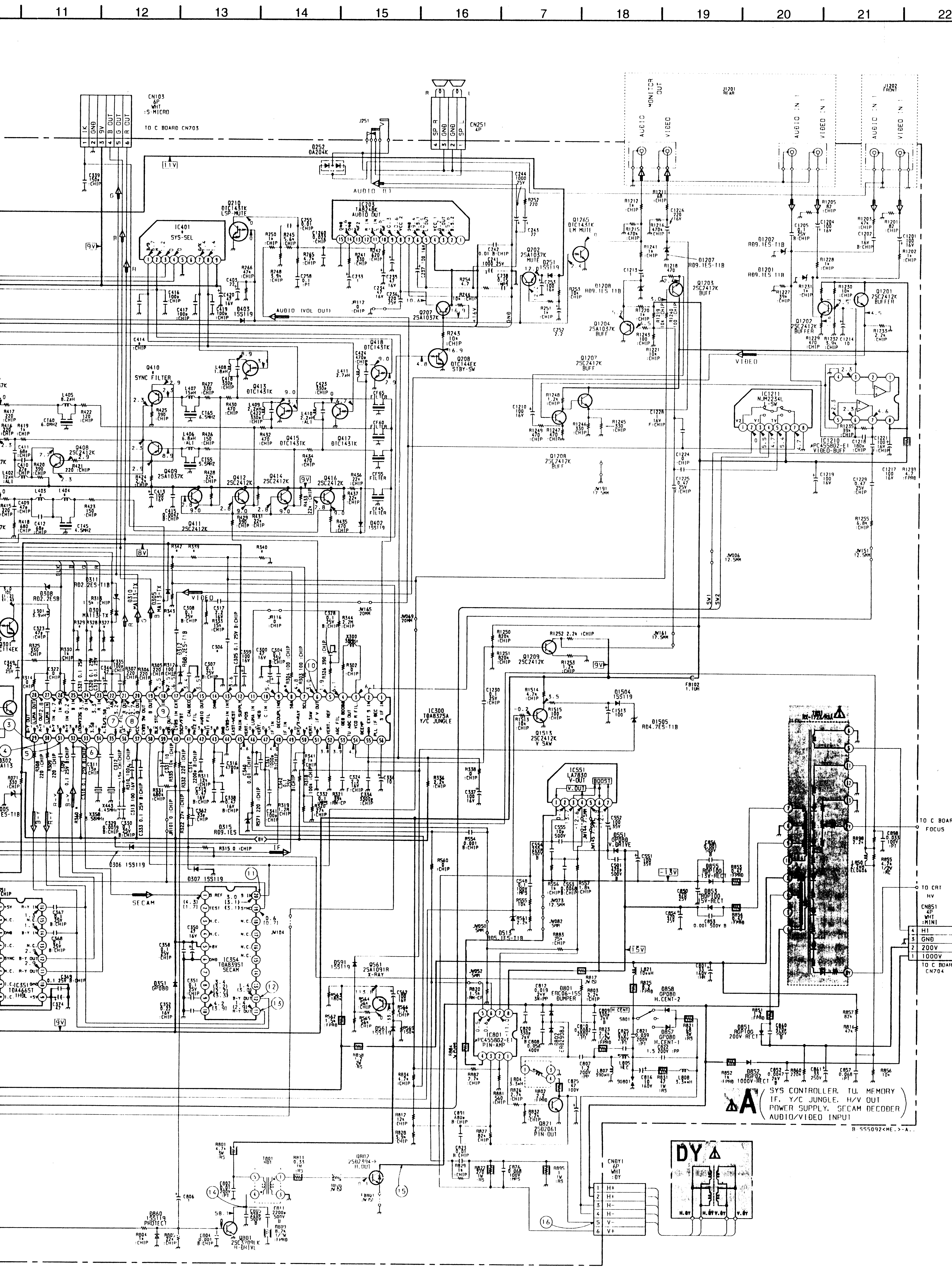

150Vp-p (H)

⑮

800Vp-p (H)

⑯

2Vp-p (V)

(1) Schematic Diagram of A Board




11
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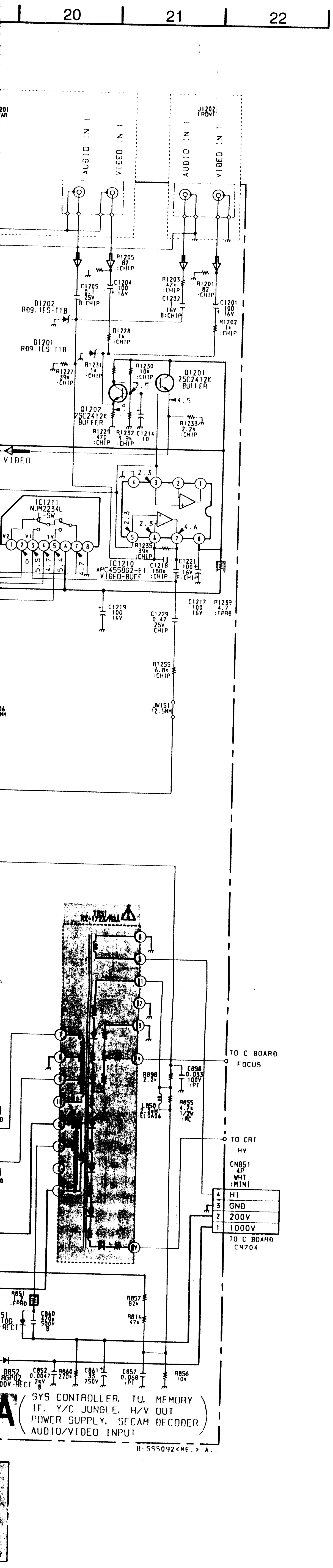
CN103 6P WHT :S-MICRO
TO C BOARD CN703
1 IK
2 GND
3 9V
4 B OUT
5 G OUT
6 R OUT
CN251 4P
4 SP R
3 GND
2 GND
1 SP L
J251
D252 DA204K
AUDIO (L)
IC401 SYS-SEL
Q210 DTC143TK LSP-MUTE
IC203 TA8248K AUDIO OUT
Q207 2SA1037K
Q208 DTC144EK STBY-SW
Q702 2SA1037K MUTE
D251 1SS119
Q1265 DTC143TK LM MUTE
AUDIO (VOL OUT)
J1201 REAR
MONITOR OUT
AUDIO
VIDEO
AUDIO IN 1
VIDEO IN 1
J1202 FRONT
AUDIO IN 2
VIDEO IN 2
D1207 RD9.1ES-T1B
D1208 RD9.1ES T1B
D1202 RD9.1ES T1B
D1201 RD9.1ES T1B
Q1203 2SC2412K BUFF
Q1204 2SA1037K BUFF
Q1201 2SC2412K BUFFER
Q1202 2SC2412K BUFFER
Q1207 2SC2412K BUFF
Q1208 2SC2412K BUFF
VIDEO
IC1211 NJM2234L 1-SW
IC1210 μPC4558G2-E1 VIDEO-BUFF
Q410 SYNC FILTER
Q413 DTC143TK
Q418 DTC143TK
Q415 DTC143TK
Q417 DTC143TK
Q408 2SC2412K
Q409 2SA1037K
Q411 2SC2412K
Q412 2SC2412K
Q414 2SC2412K
Q416 2SC2412K
CF65 FILTER
CF60 FILTER
CF55 FILTER
CF45 FILTER
D402 1SS119
C160 6.0MHZ
C165 6.5MHZ
C155 5.5MHZ
C145 4.5MHZ
JW006 12.5MM
JW151 12.5MM
JW161 17.5MM
JW191 17.5MM
SW1
SW2
Q308 RD2.2ESB
D311 RD2.2ES-T1B
D310 MA113-TX
D305 MA113-TX
D312 RD8.2ES-T1B
VIDEO
IC300 TDA8375A Y/C JUNGLE
Q1209 2SC2412K
FB102 1.1UH
D1504 1SS119
D1505 RD4.7ES-T1B
Q1513 2SC2412K V SAW
D315 RD9.1ES
D306 1SS119
D307 1SS119
SECAM
IC354 TDA8395T SECAM
IC351 TDA4665T
D351 GP08D
IC551 LA7830 V-OUT
BOOST
V.OUT
D551 GP08D V.DRIVE
D513 RD5.1ES-T1B
D591 1SS119
Q561 2SA1091R X-RAY
D561 1SS119
IC801 μPC4558G2-E1 PIN-AMP
D801 ERC06-15S DUMPER
D802 ERD29-08J
D858 GP08D H.CENT-2
D857 GP08D H.CENT-1
S801
H CENT
D855 RGP10G 13V-RECT
D853 RGP10G 5V-RECT
D851 RGP10G 200V RECT
D852 RGP02 1000V-RECT
Q821 2SD2061 PIN OUT
Q802 2SD1814-E H.OUT
Q801 2SC3209LK H-DRIVE
D860 1SS119 PHOTECT
T801 HDT
FBT
TO C BOARD
FOCUS
TO CRT HV
CN851 4P WHT :MINI
4 H1
3 GND
2 200V
1 1000V
TO C BOARD CN704
CNDY1 6P WHI :DY
1 H+
2 H+
3 H-
4 H-
5 V-
6 V+
DY
H.DY
H.DY
V.DY
V.DY
A SYS CONTROLLER, TU, MEMORY IF, Y/C JUNGLE, H/V OUT POWER SUPPLY, SECAM DECODER AUDIO/VIDEO INPUT
B S55092<ME.>-A..
9V
8V
11V
13V
15V

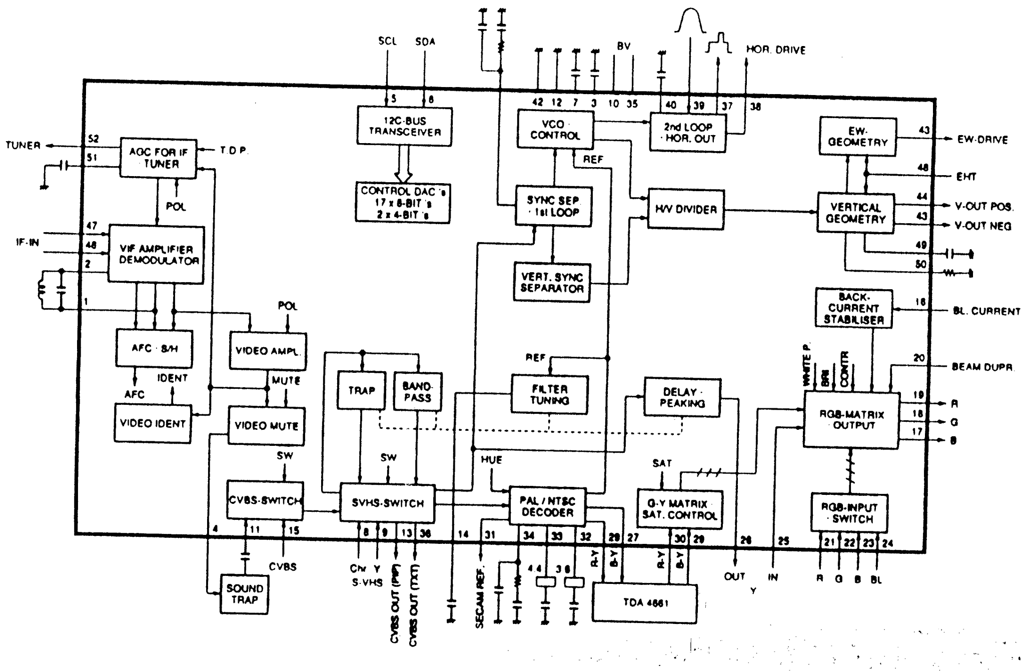
MC-Service



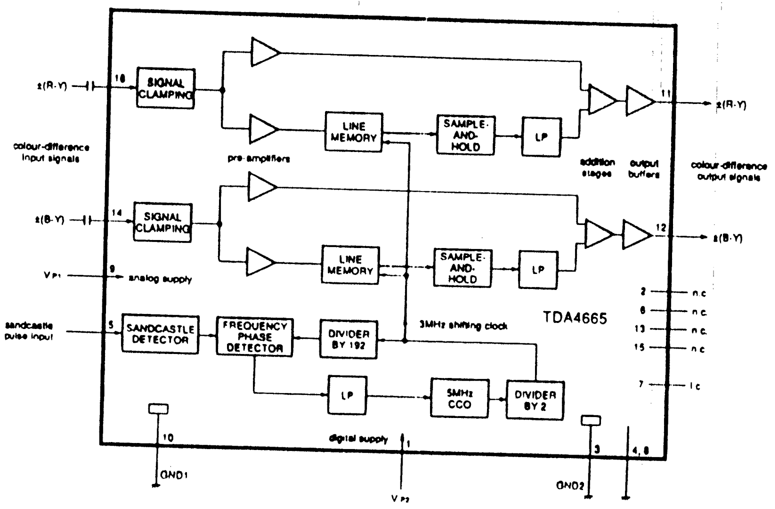
A BOARD ✻ MARK LIST

	KV-G25M1	KV-G25M11
C018	100 :CHIP	NOT USED
C051	NOT USED	100p :CHIP
C306	0.1 25V :CHIP	0 :CHIP
CN106	NOT USED	12P :B TO B
JR103	NOT USED	0 :CHIP
R020	NOT USED	100 :CHIP
R327	0 :CHIP	150 :CHIP
R328	0 :CHIP	150 :CHIP
R329	0 :CHIP	150 :CHIP
R339	300 :CHIP	NOT USED
R340	270 :CHIP	NOT USED
R342	NOT USED	300 :CHIP
R343	NOT USED	270 :CHIP
R612	0.47 :FPRD	0.1 :FUSE
R618	NOT USED	0.1 :FUSE
R635	NOT USED	22 2W :RS

A BOARD IC300 TDA8375A



A BOARD IC351 TDA4665T



PRINTED WIRING BOARD

A BOARD

IC	
IC001	D-11
IC002	E-10
IC003	E-11
IC004	I-13
IC005	E-10
IC101	E-3
IC102	E-7
IC201	A-8
IC202	B-10
IC203	B-10
IC300	D-6
IC351	D-8
IC354	D-7
IC401	B-6
IC521	E-8
IC551	J-6
IC601	J-8
IC602	H-7
IC603	I-7
IC801	G-6
IC1210	A-2
IC1211	B-3
IC1212	A-3

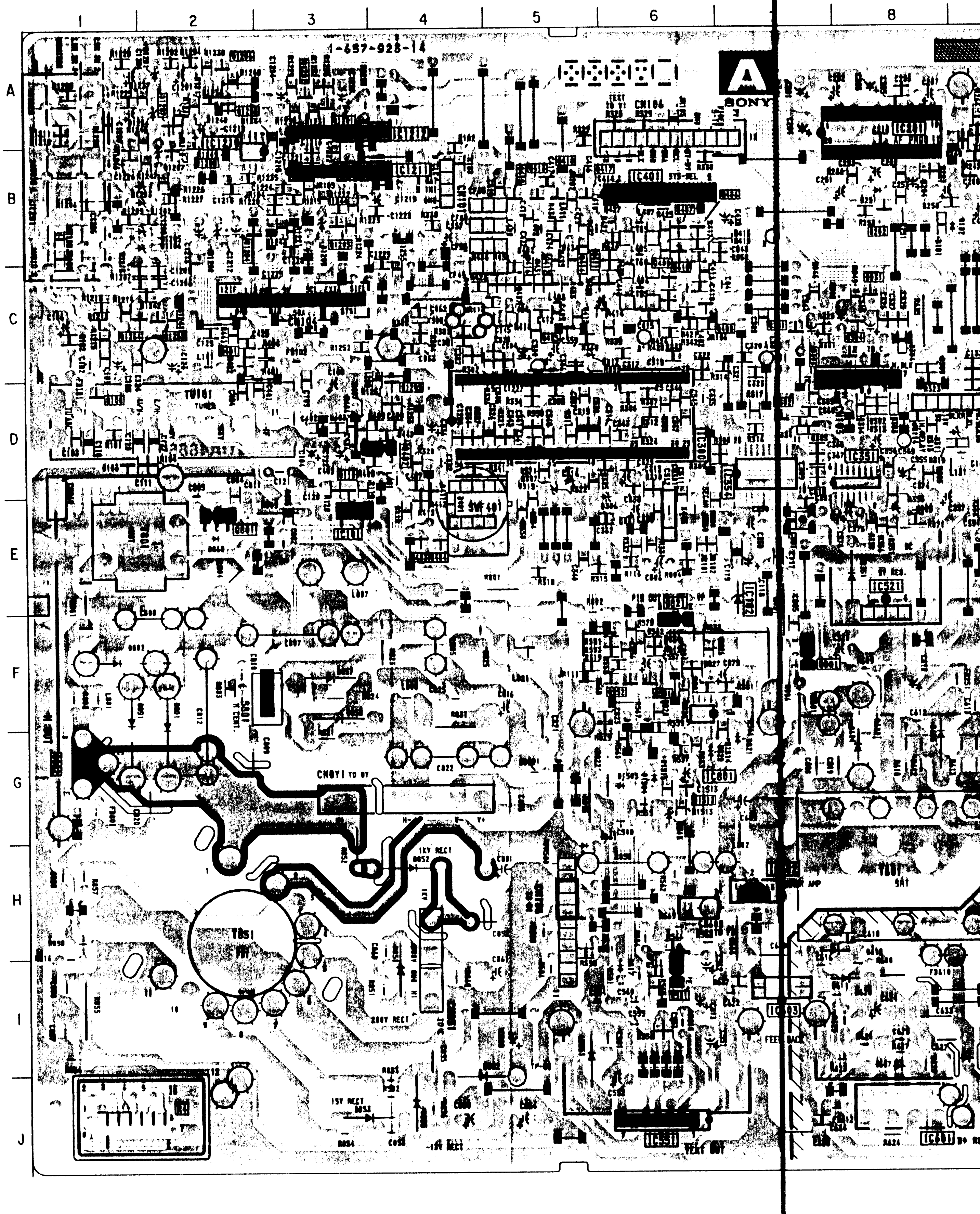
TRANSISTOR	
Q001	F-7
Q030	C-12
Q031	C-8
Q108	D-1
Q109	E-12
Q110	D-3
Q202	B-8
Q207	B-10
Q208	B-10
Q209	B-9
Q210	B-9
Q301	C-7
Q302	D-7
Q303	C-7
Q304	C-8
Q351	D-9
Q401	C-2
Q402	D-4
Q403	E-4
Q404	E-4
Q405	C-5
Q406	B-6
Q407	B-6
Q408	C-6
Q409	C-6
Q410	B-6
Q411	B-5
Q412	C-5
Q413	B-5
Q414	C-5
Q415	B-5
Q416	C-5
Q417	B-5
Q418	B-5
Q551	F-6
Q552	F-6
Q561	I-6
Q601	G-12
Q801	E-2
Q802	G-1
Q821	F-6
Q902	H-13
Q903	H-13
Q1201	A-3
Q1202	A-3
Q1203	A-2
Q1204	B-2
Q1205	B-3
Q1206	A-2
Q1207	A-2
Q1208	B-2
Q1209	D-4
Q1264	C-1
Q1265	C-2
Q1513	G-6

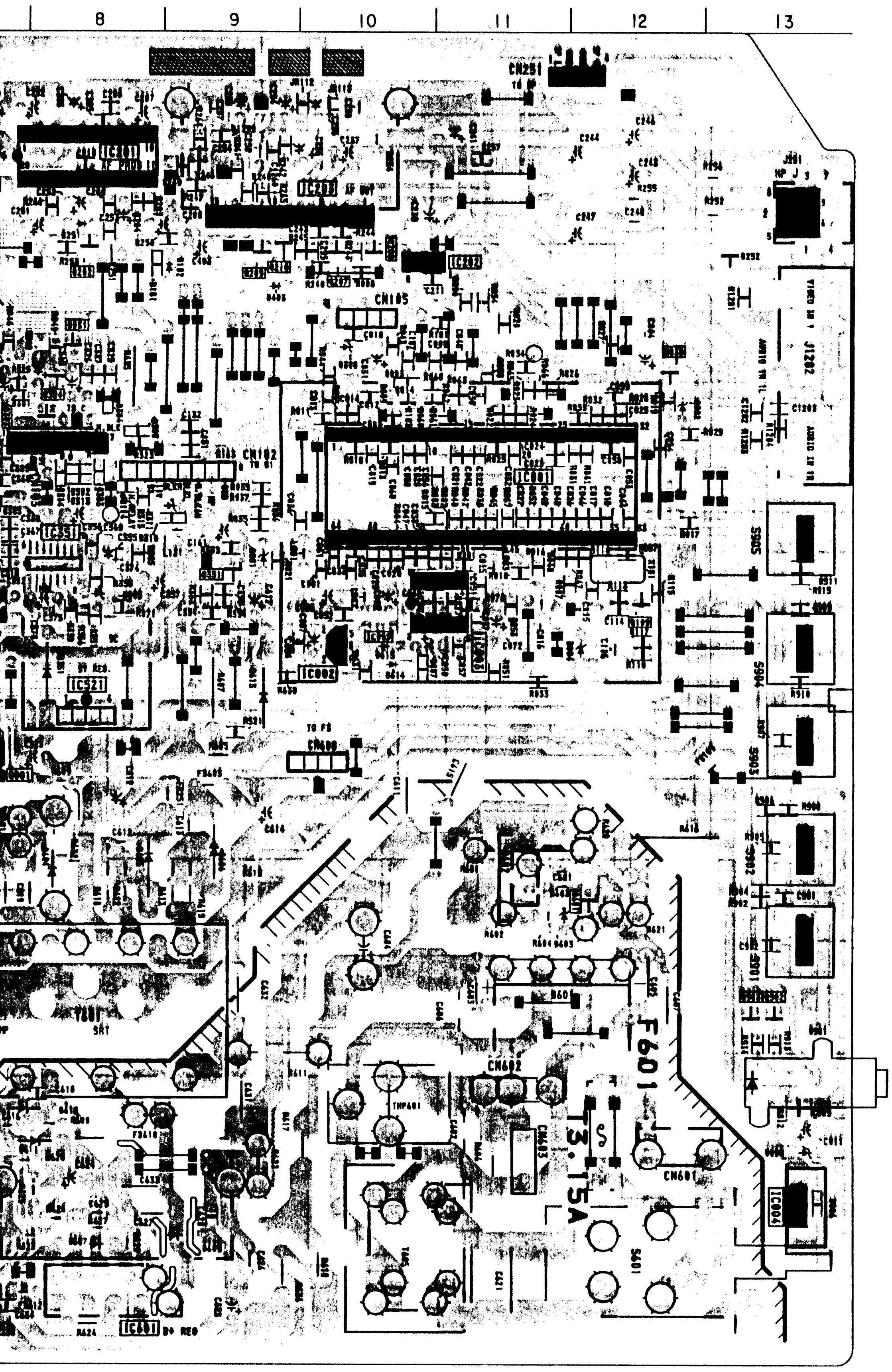
DIODE	
D001	D-9
D002	C-12
D003	C-10
D004	E-12
D005	E-8
D006	I-13
D007	E-10
D008	I-13
D101	B-8
D102	B-9
D103	D-1
D251	B-8
D252	B-13
D301	C-7
D302	D-8
D303	D-8
D304	C-8
D305	D-7
D306	E-6
D307	D-5
D308	C-10
D309	C-8
D310	D-9
D311	D-9
D312	C-5
D313	D-8
D314	D-8
D315	D-5
D351	E-8
D401	E-4
D402	B-5
D403	B-9
D513	G-6
D551	I-5
D561	H-5
D562	F-6
D581	H-5
D582	I-4
D591	I-6
D601	H-11
D602	G-11
D603	G-11
D604	G-8
D605	G-8
D606	G-9
D607	I-8
D609	I-9
D610	H-7
D611	I-7
D613	E-9
D614	E-10
D615	E-10
D801	F-2
D802	F-1
D820	G-6
D821	G-7
D851	H-4
D852	H-4
D853	J-3
D855	J-4
D857	F-3
D858	F-3
D860	E-2
D891	F-1
D901	H-13
D1201	A-2
D1202	B-2
D1203	B-2
D1204	A-2
D1205	B-2
D1206	B-2
D1207	B-2
D1208	B-2
D1209	B-3
D1504	G-6
D1505	G-6

Schematic diagram
← **A** board

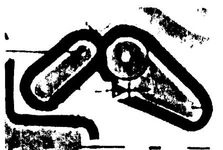
A [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE, H/V OUT
POWER SUPPLY, SECAM DECORDER, AUDIO/VIDEO INPUT]

– A Board –





MC-Service



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

SECTION 9
ELECTRICAL PARTS LIST

A

NOTE:

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1297-773-A	A BOARD, COMPLETE (KV-G25M11) ****************			
	* A-1297-768-A	A BOARD, COMPLETE (KV-G25M1) ****************			
	* 1-580-798-11	CONNECTOR PIN (DY) 6P			
	4-039-460-01	HOLDER, FBT			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3			
		<CAPACITOR>			
C001	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C002	1-126-965-11	ELECT	22MF	20%	50V
C003	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C004	1-126-961-11	ELECT	2.2MF	20%	50V
C007	1-124-902-00	ELECT	0.47MF	20%	50V
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C009	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C010	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C011	1-126-967-11	ELECT	47MF	20%	16V
C012	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C013	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C014	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C015	1-101-884-00	CERAMIC	56PF	5%	50V
C016	1-101-884-00	CERAMIC	56PF	5%	50V
C017	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C018	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (KV-G25M11)
C019	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C020	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C021	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C022	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C023	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C024	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C025	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C026	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C027	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C028	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C029	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C034	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C035	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C036	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C037	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C038	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C040	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C042	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C044	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C045	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C046	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C047	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C048	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C049	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C050	1-124-903-11	ELECT	1MF	20%	50V
C051	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (KV-G25M11)
C052	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C053	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C055	1-126-941-11	ELECT	470MF	20%	16V
C056	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C057	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C058	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C059	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C060	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C061	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C072	1-126-941-11	ELECT	470MF	20%	16V
C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C101	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C105	1-104-665-11	ELECT	100MF	20%	16V
C106	1-124-907-11	ELECT	10MF	20%	50V
C108	1-126-942-61	ELECT	1000MF	20%	16V
C109	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C110	1-136-165-00	FILM	0.1MF	5%	50V
C111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C114	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C115	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C116	1-136-165-00	FILM	0.1MF	5%	50V
C117	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C118	1-126-965-11	ELECT	22MF	20%	50V
C119	1-163-059-00	CERAMIC CHIP	0.01MF		50V
C120	1-130-493-00	MYLAR	0.068MF	5%	50V
C121	1-130-493-00	MYLAR	0.068MF	5%	50V
C122	1-104-665-11	ELECT	100MF	20%	16V
C124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C125	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C127	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C128	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C233	1-124-903-11	ELECT	1MF	20%	50V
C234	1-126-967-11	ELECT	47MF	20%	16V
C235	1-126-967-11	ELECT	47MF	20%	16V
C236	1-126-968-11	ELECT	100MF	20%	35V
C237	1-104-665-11	ELECT	100MF	20%	16V
C238	1-136-167-00	FILM	0.15MF	5%	50V
C241	1-126-942-61	ELECT	1000MF	20%	25V
C242	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C243	1-128-551-11	ELECT	22MF	20%	25V
C244	1-126-942-61	ELECT	1000MF	20%	25V
C253	1-104-665-11	ELECT	100MF	20%	16V
C255	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C258	1-130-495-00	MYLAR	0.1MF	5%	50V
C300	1-126-967-11	ELECT	47MF	20%	16V
C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V (KV-G 25M1)
C306	1-216-295-91	CONDUCTOR, CHIP (KV-G25M11)			
C307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C311	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C312	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C313	1-104-665-11	ELECT	100MF	20%	16V
C314	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C315	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V
C316	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C317	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C322	1-216-295-91	CONDUCTOR, CHIP			
C323	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C324	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C325	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C326	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C327	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C329	1-163-016-00	CERAMIC CHIP	0.0039MF	10%	50V
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C331	1-124-907-11	ELECT	10MF	20%	50V
C332	1-136-165-00	FILM	0.1MF	5%	50V
C333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C334	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C335	1-102-973-00	CERAMIC	100PF	5%	50V
C336	1-124-907-11	ELECT	10MF	20%	50V
C337	1-104-665-11	ELECT	100MF	20%	16V
C338	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V
C339	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C340	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C341	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C344	1-126-963-11	ELECT	4.7MF	20%	50V
C349	1-128-551-11	ELECT	22MF	20%	25V
C350	1-126-967-11	ELECT	47MF	20%	16V
C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C352	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C358	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C359	1-104-665-11	ELECT	100MF	20%	16V
C361	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C362	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C367	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C368	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C370	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C374	1-124-910-11	ELECT	47MF	20%	50V
C375	1-124-910-11	ELECT	47MF	20%	50V
C402	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C403	1-126-965-11	ELECT	22MF	20%	50V
C405	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C406	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C407	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C408	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C409	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C410	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C411	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C412	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C413	1-104-665-11	ELECT	100MF	20%	16V
C414	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C415	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C416	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C417	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C418	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C419	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C420	1-126-967-11	ELECT	47MF	20%	16V
C422	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C423	1-163-129-00	CERAMIC CHIP	330PF	5%	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C424	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C501	1-102-228-00	CERAMIC	470PF	10%	500V
C523	1-104-665-11	ELECT	100MF	20%	16V
C548	1-106-220-00	MYLAR	0.1MF	10%	100V
C551	1-126-968-11	ELECT	100MF	20%	35V
C552	1-126-968-11	ELECT	100MF	20%	35V
C553	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C554	1-102-244-00	CERAMIC	220PF	10%	500V
C555	1-101-804-00	CERAMIC	10PF	5%	500V
C562	1-104-665-11	ELECT	100MF	20%	16V
C601	1-162-318-11	CERAMIC	0.001MF	10%	500V
C602	1-102-050-00	CERAMIC	0.01MF		500V
C603	1-161-830-00	CERAMIC	0.0047MF		500V
C604	1-113-608-11	ELECT(SOLID)	470MF	20%	400V
C606	1-161-830-00	CERAMIC	0.0047MF		500V
C608	1-104-332-11	CERAMIC	470PF	10%	2KV
C609	1-124-347-00	ELECT	100MF	20%	160V
C610	1-126-943-11	ELECT	2200MF	20%	25V
C611	⚠ 1-104-985-51	CERAMIC	470PF	10%	400V
C612	1-102-228-00	CERAMIC	470PF	10%	500V
C613	1-102-824-00	CERAMIC	470PF	5%	50V
C614	1-126-943-11	ELECT	2200MF	20%	25V
C616	1-102-228-00	CERAMIC	470PF	10%	500V
C618	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C619	1-162-116-00	CERAMIC	680PF	10%	2KV
C621	⚠ 1-104-705-51	FILM	0.1MF	20%	250V
C622	1-106-383-00	MYLAR	0.047MF	10%	200V
C623	1-124-120-11	ELECT	220MF	20%	16V
C624	1-126-942-61	ELECT	1000MF	20%	16V
C625	1-102-074-00	CERAMIC	0.001MF	10%	50V
C627	1-162-116-00	CERAMIC	680PF	10%	2KV
C630	⚠ 1-104-985-51	CERAMIC	470PF	10%	400V
C631	1-161-830-00	CERAMIC	0.0047MF		500V
C632	⚠ 1-104-985-51	CERAMIC	470PF	10%	400V
C633	1-161-754-00	CERAMIC	0.001MF	10%	3KV
C634	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C801	1-123-024-21	ELECT	33MF		160V
C802	1-106-367-00	MYLAR	0.01MF	10%	200V
C804	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C805	1-102-244-00	CERAMIC	220PF	10%	500V
C806	1-124-903-11	ELECT	1MF	20%	50V
C807	1-136-540-11	FILM	0.82MF	5%	200V
C808	1-130-895-00	FILM	0.056MF	10%	400V
C809	1-162-115-00	CERAMIC	330PF	10%	2KV
C810	1-106-365-00	MYLAR	0.0082MF		200V
C811	1-162-318-11	CERAMIC	0.001MF	10%	500V
C812	1-136-617-11	FILM	0.019MF	3%	2KV
C816	1-123-947-00	ELECT	10MF	20%	160V
C820	1-162-115-00	CERAMIC	330PF	10%	2KV
C821	1-106-391-12	MYLAR	0.1MF	10%	200V
C822	1-136-541-11	FILM	1.5MF	5%	200V
C823	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C825	1-106-367-00	MYLAR	0.01MF	10%	200V
C850	1-124-480-11	ELECT	470MF	20%	25V
C852	1-104-574-11	CERAMIC	0.0047MF	10%	2KV
C853	1-162-318-11	CERAMIC	0.001MF	10%	500V
C854	1-124-480-11	ELECT	470MF	20%	25V
C856	1-162-318-11	CERAMIC	0.001MF	10%	500V
C857	1-136-165-00	FILM	0.1MF	5%	50V
C860	1-102-228-00	CERAMIC	470PF	10%	500V
C861	1-107-654-11	ELECT	33MF	20%	250V
C875	1-124-910-11	ELECT	47MF	20%	50V
C876	1-108-702-11	MYLAR	0.068MF	10%	100V
C891	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C898	1-108-702-11	MYLAR	0.068MF	10%	100V
C901	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C902	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1201	1-104-665-11	ELECT	100MF	20%	16V
C1202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C1204	1-104-665-11	ELECT 100MF 20%	16V
C1205	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C1210	1-104-665-11	ELECT 100MF 20%	16V
C1213	1-124-903-11	ELECT 1MF 20%	50V
C1214	1-124-907-11	ELECT 10MF 20%	50V
C1217	1-104-665-11	ELECT 100MF 20%	16V
C1218	1-163-123-00	CERAMIC CHIP 180PF 5%	50V
C1219	1-104-665-11	ELECT 100MF 20%	16V
C1221	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1224	1-216-295-91	CONDUCTOR, CHIP	
C1225	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1226	1-124-120-11	ELECT 220MF 20%	16V
C1228	1-164-346-11	CERAMIC CHIP 1MF	16V
C1229	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1230	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C1260	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V
C1513	1-124-122-11	ELECT 100MF 20%	50V

<FILTER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CF45	1-527-943-00	FILTER, CERAMIC	
CF55	1-567-099-00	FILTER, CERAMIC	
CF60	1-567-100-00	FILTER, CERAMIC	
CF65	1-567-101-11	FILTER, CERAMIC	

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN101	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
CN103	*1-564-509-11	PLUG, CONNECTOR 6P	
CN106	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	(KV-G25M11)
CN251	*1-564-507-11	PLUG, CONNECTOR 4P	
CN601	*1-580-843-11	PIN, CONNECTOR (POWER)	
CN602	*1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P	
CN603	*1-508-786-00	PIN, CONNECTOR (5mm PITCH) 2P	
CN851	*1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P	

<TRIMMER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CT45	1-579-690-11	TRAP, CERAMIC	
CT55	1-404-801-11	TRAP, CERAMIC	
CT60	1-409-429-11	TRAP, CERAMIC	
CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	

<DIODE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
D001	8-719-109-81	DIODE RD4.7ESB2	
D002	8-719-911-19	DIODE 1SS119-25	
D003	8-719-041-97	DIODE MA113-(TX)	
D005	8-719-109-84	DIODE RD5.1ESB1	
D008	8-719-109-89	DIODE RD5.6ESB2	
D103	8-719-914-42	DIODE DA204K	
D251	8-719-911-19	DIODE 1SS119-25	
D252	8-719-914-42	DIODE DA204K	
D301	8-719-041-97	DIODE MA113-(TX)	
D305	8-719-041-97	DIODE MA113-(TX)	
D306	8-719-911-19	DIODE 1SS119-25	
D307	8-719-911-19	DIODE 1SS119-25	
D308	8-719-109-54	DIODE RD2.2ESB2	
D310	8-719-041-97	DIODE MA113-(TX)	
D311	8-719-109-68	DIODE RD3.6ESB1	
D312	8-719-110-08	DIODE RD8.2ESB2	
D315	8-719-121-24	DIODE RD9.1ESL	
D351	8-719-908-03	DIODE GP08D	
D399	8-719-121-24	DIODE RD9.1ESL	
D401	8-719-421-40	DIODE MA77	
D402	8-719-911-19	DIODE 1SS119-25	
D403	8-719-911-19	DIODE 1SS119-25	
D513	8-719-109-84	DIODE RD5.1ESB1	
D551	8-719-908-03	DIODE GP08D	

REF. NO.	PART NO.	DESCRIPTION	REMARK
D561	8-719-911-19	DIODE 1SS119-25	
D591	8-719-911-19	DIODE 1SS119-25	
D601	8-719-052-84	DIODE LN4SB60	
D602	8-719-108-18	THYRISTOR 5P6M	
D603	8-719-110-36	DIODE RD13ESB2	
D604	8-719-301-64	DIODE RU4DS	
D605	8-719-510-73	DIODE S3L20UF4	
D606	8-719-510-73	DIODE S3L20UF4	
D607	8-719-510-26	DIODE D1NL20-TA	
D609	8-719-510-26	DIODE D1NL20-TA	
D610	8-719-510-26	DIODE D1NL20-TA	
D611	8-719-510-26	DIODE D1NL20-TA	
D801	8-719-945-80	DIODE ERC06-15S	
D802	8-719-900-26	DIODE ERD29-08J	
D851	8-719-302-43	DIODE EL1Z	
D852	8-719-028-72	DIODE RGP02-17EL-6433	
D853	8-719-302-43	DIODE EL1Z	
D855	8-719-302-43	DIODE EL1Z	
D857	8-719-908-03	DIODE GP08D	
D858	8-719-908-03	DIODE GP08D	
D860	8-719-911-19	DIODE 1SS119-25	
D891	8-719-945-80	DIODE ERC06-15S	
D901	8-719-054-60	DIODE LNK0220022G	
D1201	8-719-121-24	DIODE RD9.1ESL	
D1202	8-719-121-24	DIODE RD9.1ESL	
D1207	8-719-121-24	DIODE RD9.1ESL	
D1208	8-719-121-24	DIODE RD9.1ESL	
D1504	8-719-911-19	DIODE 1SS119-25	
D1505	8-719-109-81	DIODE RD4.7ESB2	

<FUSE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
F601	⚠1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V	
	1-533-223-11	CLIP, FUSE ; F601	

<FERRITE BEAD>

REF. NO.	PART NO.	DESCRIPTION	REMARK
FB101	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB102	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB251	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB603	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB612	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB801	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC001	8-752-873-18	IC CXP85116B-642S	
	*4-049-131-01	CASE (A), SHIELD ; IC001	
IC002	8-759-805-37	IC L78LR05D-MA	
IC003	8-759-093-95	IC CAT24C04P	
IC004	8-741-790-11	ELEMENT,RAY-CATCHER SBX1790- 11	
IC102	8-759-157-40	IC uPC574J	
IC203	8-759-336-30	IC TA8223K	
IC300	8-759-365-26	IC TDA8375A	
IC351	8-759-288-85	IC TDA4665T-T	
IC354	8-759-251-56	IC TDA8395T	
IC401	8-759-800-65	IC LA7910	
IC521	8-759-195-63	IC PQ09RE11	
IC551	8-759-801-98	IC LA7830	
IC601	8-749-010-84	IC STR-S6708	
IC602	8-749-920-61	IC SE-135N	
IC603	⚠8-749-010-59	PHOTO COUPLER PC123F2	
IC801	8-759-100-96	IC uPC4558G2	
IC1210	8-759-100-96	IC uPC4558G2	
IC1211	8-759-711-23	IC NJM2234L	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<JACK>	
J251	1-770-785-11	JACK	
J1201	1-770-660-11	JACK BLOCK, PIN 4P	
J1202	1-695-238-11	JACK BLOCK, PIN 2P	
		<CHIP CONDUCTOR>	
JR101	1-216-295-91	CONDUCTOR, CHIP	
JR103	1-216-295-91	CONDUCTOR, CHIP (KV-G25M11)	
JR112	1-216-295-91	CONDUCTOR, CHIP	
JR116	1-216-295-91	CONDUCTOR, CHIP	
		<COIL>	
L001	1-408-397-00	INDUCTOR 1UH	
L002	1-410-509-11	INDUCTOR 10UH	
L003	1-408-411-00	INDUCTOR 15UH	
L101	1-410-470-11	INDUCTOR 10UH	
L301	1-408-404-00	INDUCTOR 3.9UH	
L401	1-410-498-11	INDUCTOR 1.2UH	
L402	1-410-510-11	INDUCTOR 12UH	
L403	1-410-510-11	INDUCTOR 12UH	
L404	1-410-508-11	INDUCTOR 8.2UH	
L405	1-410-508-11	INDUCTOR 8.2UH	
L406	1-410-507-11	INDUCTOR 6.8UH	
L407	1-410-511-11	INDUCTOR 15UH	
L408	1-410-500-11	INDUCTOR 1.8UH	
L409	1-410-501-11	INDUCTOR 2.2UH	
L410	1-410-501-11	INDUCTOR 2.2UH	
L411	1-410-502-11	INDUCTOR 2.7UH	
L802	1-412-527-11	INDUCTOR 15UH	
L804	1-459-075-00	COIL,DYNAMIC CONVERSION CHOKE	
L805	1-459-907-11	COIL, HORIZONTAL LINEARITY	
L807	1-459-390-00	COIL (WITH CORE)	
L808	1-412-553-11	INDUCTOR 3.3mH	
L821	1-459-111-00	COIL, DRAM CORE (CDI)	
L850	1-408-947-00	INDUCTOR 2.2mH	
		<TRANSISTOR>	
Q030	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q108	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q109	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q110	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q202	8-729-216-22	TRANSISTOR 2SA1162-G	
Q207	8-729-216-22	TRANSISTOR 2SA1162-G	
Q208	8-729-421-19	TRANSISTOR UN2213	
Q210	8-729-424-67	TRANSISTOR UN2216	
Q301	8-729-421-22	TRANSISTOR UN2211	
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q402	8-729-922-66	TRANSISTOR 2SC2410SN	
Q403	8-729-424-67	TRANSISTOR UN2216	
Q404	8-729-424-67	TRANSISTOR UN2216	
Q405	8-729-216-22	TRANSISTOR 2SA1162-G	
Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
Q407	8-729-216-22	TRANSISTOR 2SA1162-G	
Q408	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q409	8-729-216-22	TRANSISTOR 2SA1162-G	
Q410	8-729-216-22	TRANSISTOR 2SA1162-G	
Q411	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q412	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q413	8-729-424-67	TRANSISTOR UN2216	
Q414	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q415	8-729-424-67	TRANSISTOR UN2216	
Q416	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q417	8-729-424-67	TRANSISTOR UN2216	
Q418	8-729-424-67	TRANSISTOR UN2216	
Q561	8-729-200-17	TRANSISTOR 2SA1091-O	
Q601	8-729-422-27	TRANSISTOR 2SD601A-Q	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q801	8-729-140-96	TRANSISTOR 2SD774-34	
Q802	8-729-016-32	TRANSISTOR 2SC4927-01	
Q821	8-729-018-99	TRANSISTOR 2SD2394-F	
Q902	8-729-421-19	TRANSISTOR UN2213	
Q903	8-729-421-19	TRANSISTOR UN2213	
Q1201	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1202	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1203	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1204	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1207	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1208	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1209	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1265	8-729-424-67	TRANSISTOR UN2216	
Q1513	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<RESISTOR>	
R001	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R002	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R003	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R004	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R007	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R008	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R009	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R010	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R012	1-216-017-91	METAL GLAZE 47 5%	1/10W
R013	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R014	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R015	1-216-043-91	METAL GLAZE 560 5%	1/10W
R016	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R017	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R018	1-216-033-00	METAL GLAZE 220 5%	1/10W
R019	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R020	1-216-025-91	METAL GLAZE 100 5%	1/10W (KV-G25M11)
R021	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R025	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R027	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R028	1-216-025-91	METAL GLAZE 100 5%	1/10W
R029	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R031	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R033	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R035	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R036	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R038	1-216-033-00	METAL GLAZE 220 5%	1/10W
R040	1-216-033-00	METAL GLAZE 220 5%	1/10W
R041	1-216-025-91	METAL GLAZE 100 5%	1/10W
R042	1-216-039-00	METAL GLAZE 390 5%	1/10W
R045	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R047	1-216-025-91	METAL GLAZE 100 5%	1/10W
R048	1-216-025-91	METAL GLAZE 100 5%	1/10W
R053	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R054	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R057	1-216-049-91	METAL GLAZE 1K 5%	1/10W
R060	1-216-037-00	METAL GLAZE 330 5%	1/10W
R061	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R062	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R063	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R065	1-216-033-00	METAL GLAZE 220 5%	1/10W
R066	1-216-033-00	METAL GLAZE 220 5%	1/10W
R067	1-216-033-00	METAL GLAZE 220 5%	1/10W
R068	1-216-025-91	METAL GLAZE 100 5%	1/10W
R071	1-216-037-00	METAL GLAZE 330 5%	1/10W
R076	1-216-025-91	METAL GLAZE 100 5%	1/10W
R077	1-216-025-91	METAL GLAZE 100 5%	1/10W
R090	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R101	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R102	1-216-049-91	METAL GLAZE 1K 5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R113	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R114	1-216-041-00	METAL GLAZE	470	5%	1/10W
R115	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R116	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R117	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R118	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R119	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R120	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R131	1-216-464-11	METAL OXIDE	18K	5%	2W F
R180	1-216-033-00	METAL GLAZE	220	5%	1/10W
R181	1-216-033-00	METAL GLAZE	220	5%	1/10W
R182	1-216-033-00	METAL GLAZE	220	5%	1/10W
R241	1-216-037-00	METAL GLAZE	330	5%	1/10W
R242	1-216-044-00	METAL GLAZE	620	5%	1/10W
R243	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R244	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R245	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R248	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R250	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R251	1-216-295-91	CONDUCTOR, CHIP			
R252	1-249-411-11	CARBON	330	5%	1/4W
R253	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R254	1-249-389-11	CARBON	4.7	5%	1/4W
R265	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R266	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R302	1-216-295-91	CONDUCTOR, CHIP			
R303	1-216-025-91	METAL GLAZE	100	5%	1/10W
R304	1-216-025-91	METAL GLAZE	100	5%	1/10W
R305	1-216-025-91	METAL GLAZE	100	5%	1/10W
R306	1-216-025-91	METAL GLAZE	100	5%	1/10W
R307	1-216-025-91	METAL GLAZE	100	5%	1/10W
R308	1-216-033-00	METAL GLAZE	220	5%	1/10W
R309	1-216-033-00	METAL GLAZE	220	5%	1/10W
R310	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R311	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R312	1-216-025-91	METAL GLAZE	100	5%	1/10W
R313	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R314	1-216-295-91	CONDUCTOR, CHIP			
R315	1-216-295-91	CONDUCTOR, CHIP			
R318	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R319	1-216-123-11	METAL GLAZE	1.2M	5%	1/10W
R320	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R321	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R322	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R325	1-216-037-00	METAL GLAZE	330	5%	1/10W
R326	1-216-039-00	METAL GLAZE	390	5%	1/10W
R327	1-216-029-00	METAL GLAZE	150	5%	1/10W (KV-G25M11)
R327	1-216-295-91	CONDUCTOR, CHIP			(KV-G25M1)
R328	1-216-029-00	METAL GLAZE	150	5%	1/10W (KV-G25M11)
R328	1-216-295-91	CONDUCTOR, CHIP			(KV-G25M1)
R329	1-216-029-00	METAL GLAZE	150	5%	1/10W (KV-G25M11)
R329	1-216-295-91	CONDUCTOR, CHIP			(KV-G25M1)
R330	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R331	1-216-115-00	METAL GLAZE	560K	5%	1/10W
R332	1-216-033-00	METAL GLAZE	220	5%	1/10W
R333	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R335	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R336	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R338	1-216-295-91	CONDUCTOR, CHIP			
R339	1-216-036-00	METAL GLAZE	300	5%	1/10W (KV-G25M1)
R340	1-216-035-00	METAL GLAZE	270	5%	1/10W (KV-G25M1)
R341	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R342	1-216-036-00	METAL GLAZE	300	5%	1/10W (KV-G25M11)
R343	1-216-035-00	METAL GLAZE	270	5%	1/10W (KV-G25M11)

REF. NO.	PART NO.	DESCRIPTION			REMARK
R344	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W
R351	1-216-001-00	METAL GLAZE	10	5%	1/10W
R355	1-216-001-00	METAL GLAZE	10	5%	1/10W
R356	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R360	1-208-291-11	METAL GLAZE	4.7M	5%	1/10W
R403	1-216-021-00	METAL GLAZE	68	5%	1/10W
R406	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R407	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R408	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R409	1-216-025-91	METAL GLAZE	100	5%	1/10W
R410	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R411	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R412	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R413	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R414	1-216-041-00	METAL GLAZE	470	5%	1/10W
R415	1-216-033-00	METAL GLAZE	220	5%	1/10W
R416	1-216-033-00	METAL GLAZE	220	5%	1/10W
R417	1-216-033-00	METAL GLAZE	220	5%	1/10W
R418	1-216-045-00	METAL GLAZE	680	5%	1/10W
R419	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R420	1-216-039-00	METAL GLAZE	390	5%	1/10W
R421	1-216-033-00	METAL GLAZE	220	5%	1/10W
R422	1-216-027-00	METAL GLAZE	120	5%	1/10W
R423	1-216-029-00	METAL GLAZE	150	5%	1/10W
R424	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R425	1-216-039-00	METAL GLAZE	390	5%	1/10W
R426	1-216-029-00	METAL GLAZE	150	5%	1/10W
R427	1-216-037-00	METAL GLAZE	330	5%	1/10W
R428	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R429	1-216-039-00	METAL GLAZE	390	5%	1/10W
R430	1-216-041-00	METAL GLAZE	470	5%	1/10W
R431	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R432	1-216-041-00	METAL GLAZE	470	5%	1/10W
R433	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R434	1-216-041-00	METAL GLAZE	470	5%	1/10W
R435	1-216-041-00	METAL GLAZE	470	5%	1/10W
R436	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R437	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R440	1-216-029-00	METAL GLAZE	150	5%	1/10W
R521	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R552	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R553	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R554	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
R555	1-249-429-11	CARBON	10K	5%	1/4W
R556	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R557	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R560	1-216-295-91	CONDUCTOR, CHIP			
R561	1-249-421-11	CARBON	2.2K	5%	1/4W
R562	1-249-420-11	CARBON	1.8K	5%	1/4W F
R563	1-247-885-00	CARBON	180K	5%	1/4W
R564	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R565	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R566	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R569	1-247-883-00	CARBON	150K	5%	1/4W
R570	1-216-295-91	CONDUCTOR, CHIP			
R571	1-216-033-00	METAL GLAZE	220	5%	1/10W
R603	1-249-416-11	CARBON	820	5%	1/4W F
R604	1-249-416-11	CARBON	820	5%	1/4W F
R606	1-215-915-11	METAL OXIDE	470	5%	3W F
R610	1-215-924-00	METAL OXIDE	15K	5%	3W F
R611	1-202-933-61	FUSIBLE	0.1	10%	1/2W F
R612	1-219-134-11	FUSIBLE	0.1	10%	1/4W (KV-G25M11)
R612	1-249-377-11	CARBON	0.47	5%	1/4W F (KV-G25M1)
R613	1-219-134-11	FUSIBLE	0.1	10%	1/4W
R614	1-215-877-11	METAL OXIDE	22K	5%	1W F
R615	1-249-389-11	CARBON	4.7	5%	1/4W

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION			REMARK	
R616	⚠ 1-218-265-91	METAL	8.2M	5%	1W	
R617	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R618	1-219-134-11	FUSIBLE	0.1	10%	1/4W	
					(KV-G25M11)	
R619	1-219-134-11	FUSIBLE	0.1	10%	1/4W	
R620	1-202-962-11	WIREWOUND	3.3	5%	10W	
R622	1-217-191-21	WIREWOUND	0.18	10%	2W	F
R623	1-247-807-31	CARBON	100	5%	1/4W	
R624	1-215-881-11	METAL OXIDE	15	5%	2W	F
R625	1-249-424-11	CARBON	3.9K	5%	1/4W	
R626	1-249-420-11	CARBON	1.8K	5%	1/4W	
R627	1-249-417-11	CARBON	1K	5%	1/4W	
R628	1-249-417-11	CARBON	1K	5%	1/4W	
R629	1-249-401-11	CARBON	47	5%	1/4W	
R632	1-249-381-11	CARBON	1	5%	1/4W	
R635	1-215-882-00	METAL OXIDE	22	5%	2W	F
					(KV-G25M11)	
R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R801	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F
R802	1-249-387-11	CARBON	3.3	5%	1/4W	F
R803	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R804	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R805	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R809	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R811	1-216-346-00	METAL OXIDE	0.56	5%	1W	F
R812	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R816	1-249-437-11	CARBON	47K	5%	1/4W	
R820	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R821	1-215-910-00	METAL OXIDE	68	5%	3W	F
R822	1-216-429-00	METAL OXIDE	270	5%	1W	F
R823	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R825	1-249-392-11	CARBON	8.2	5%	1/4W	F
R826	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R827	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R828	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R829	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R831	1-215-861-00	METAL OXIDE	47	5%	1W	F
R832	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R834	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R851	1-249-382-11	CARBON	1.2	5%	1/4W	F
R852	1-249-417-11	CARBON	1K	5%	1/4W	F
R853	1-249-377-11	CARBON	0.47	5%	1/4W	F
R854	1-249-377-11	CARBON	0.47	5%	1/4W	F
R855	1-202-818-00	SOLID	1K	20%	1/2W	
R856	1-249-431-11	CARBON	15K	5%	1/4W	
R857	1-249-438-11	CARBON	56K	5%	1/4W	
R858	1-216-370-11	METAL OXIDE	1.2	5%	2W	F
R860	1-247-887-00	CARBON	220K	5%	1/4W	
R881	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R882	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R883	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R895	1-216-348-00	METAL OXIDE	0.82	5%	1W	F
R898	1-249-421-11	CARBON	2.2K	5%	1/4W	
R902	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R904	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R905	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R906	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R907	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R908	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R909	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R910	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R911	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R913	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R914	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R915	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R1201	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1202	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1203	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R1205	1-216-023-00	METAL GLAZE	82	5%	1/10W	

REF. NO.	PART NO.	DESCRIPTION			REMARK	
R1206	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R1211	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R1212	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1215	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1216	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1218	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1219	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1220	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1221	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1227	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1228	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1229	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1230	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1231	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1232	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R1233	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1235	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1239	1-249-389-11	CARBON	4.7	5%	1/4W	F
R1240	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R1241	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R1243	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R1245	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1246	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1247	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1248	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R1249	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1250	1-216-119-00	METAL GLAZE	820K	5%	1/10W	
R1251	1-216-119-00	METAL GLAZE	820K	5%	1/10W	
R1252	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1253	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R1255	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1513	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1514	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1515	1-216-025-91	METAL GLAZE	100	5%	1/10W	

<SWITCH>

REF. NO.	PART NO.	DESCRIPTION
S601	⚠ 1-571-433-31	SWITCH, PUSH (AC POWER)
S801	1-572-707-11	SWITCH, LEVER
S901	1-570-577-11	SWITCH, PUSH
S902	1-570-577-11	SWITCH, PUSH
S903	1-570-577-11	SWITCH, PUSH
S904	1-570-577-11	SWITCH, PUSH
S905	1-570-577-11	SWITCH, PUSH

<SPARK GAP>

REF. NO.	PART NO.	DESCRIPTION
SG801	1-519-422-11	GAP, SPARK

<FILTER>

REF. NO.	PART NO.	DESCRIPTION
SWF401	1-760-771-11	FILTER, SURFACE WAVE

<TRANSFORMER>

REF. NO.	PART NO.	DESCRIPTION
T601	⚠ 1-429-139-21	TRANSFORMER, CONVERTER (SRT)
T605	⚠ 1-424-461-11	TRANSFORMER, LINE FILTER
T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE
T851	⚠ 8-598-945-00	TRANSFORMER ASSY, FLYBACK

<THERMISTOR>

REF. NO.	PART NO.	DESCRIPTION
THP601	⚠ 1-810-961-11	THERMISTOR, POSITIVE

<TUNER>

REF. NO.	PART NO.	DESCRIPTION
TU101	⚠ 8-598-323-00	TUNER BT-AG401

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CRYSTAL>	
X101	1-577-358-21	VIBRATOR, CERAMIC	
X300	1-411-752-11	COIL	
X358	1-567-505-11	OSCILLATOR, CRYSTAL	
X443	1-567-504-11	OSCILLATOR, CRYSTAL	